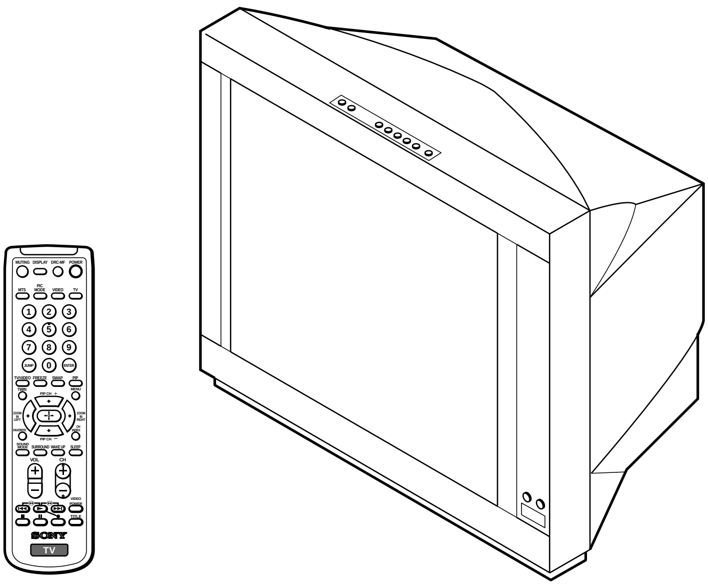
Self Diagnosis Supported model

SERVICE MANUAL

AG3 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-ES29K90	RM-959	KOREAN	SCC-P14A-A



TRINITRON ® COLOR TV

SONY ®

SPECIFICATIONS

		Note
Power requirements	110-220 V AC, 60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	M	
Color system	NTSC3.58	
Stereo/Bilingual system	Korean Stereo	
Channel coverage	VHF: 2 ch to 13 ch / UHF: 14 ch to 69 ch / CATV: 1 ch to 125 ch	
(Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W	10% distortion
Number of terminal		
Video	Input: 4 Output: 1	Phono jacks; 1 Vp-p, 75 ohms
Audio	Input: 4 Output: 1	Phono jacks; 500 mVrms
S Video	Input: 2	Y : 1 Vp-p, 75 ohms, unbalanced, sync negative C : 0.286 Vp-p, 75 ohms
Component Video (DVD) IN	Input: 1	Phono jacks Y : 1 Vp-p, 75 ohms, sync negative CB : 0.7 Vp-p, 75 ohms CR : 0.7 Vp-p, 75 ohms Audio : 500 mVrms
DIGITAL IN	Input: 1	Phono jack; 0.5 Vp-p, 75 ohms
(Headphones)	Output: 1	Stereo minijack
Picture tube	29 inch	
Tube size (cm)	72	Measured diagonally
Screen size (cm)	68	Measured diagonally
Dimension (w/h/d, mm)	722 x 561 x 524	
Mass (kg)	56	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

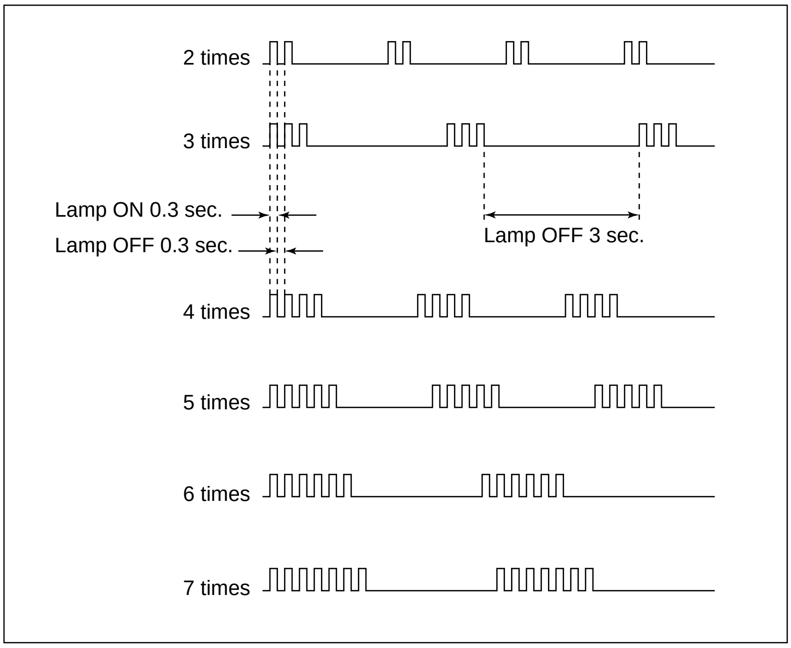
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

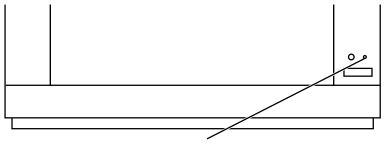
Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F1601 (F1 Board)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP)	2 times	002:000 or 002:001~255	• H.OUT Q6807 is shorted. • H.LIM Q6810 is shorted.	• Power does not come on. • Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001~255	• PH 6602 faulty. • 10.5V is not supplied. (D board)	• Power does not come on.
• Vertical deflection failure	4 times	004:000 or 004:001~255	• V.OUT IC6800 faulty D6816 faulty D6817 faulty D6824 faulty R6852 open R6851 open	• Vertical deflection pulse is stopped. • Vertical size is too small. • Vertical deflection stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~255	• G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC9001, 9002, 9003 are faulty. (C board) • IC8306 (J board) and IC4301 (E board) are faulty. • No connection E board to C board.	• No raster is generated. • CRT cathode current detection reference pulse output is small.
• Horizontal deflection failure	6 times	006:000 or 006:001~225	• C6831 is open circuit. • CN6101 (D1 board) is disconnected.	• H pulse output is too high.
• Audio Protection	7 times	007:000 or 007:001~225	• Power supply fails. • IC1203, IC1204 faulty	• There is picture but speaker does not release sound.
• Micro reset	—	101:00 or 101:001~225	• Discharge CRT (C Board) • Static discharge • External noise	• Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: Refer to screen (G2) Adjustment in section 4-5 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT





Diagnostic Item	Flash Count*
+B overcurrent	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
High voltage protector	6 times
Audio Protection	7 times

* One flash count is not used for self-diagnostic.

3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

[To Bring Up Screen Test]
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

[Screen display] ➡ channel [5] ➡ Sound volume [-] ➡ Power ON
⇧
Note that this differs from entering the service mode (mode volume [+]).

Self-Diagnosis screen display

SELF DIAGNOSTIC

002 : 000 ← Numeral "0" means that no fault has been detected.
003 : 000
004 : 000
005 : 001 ← Numeral "1" means a fault has been detected.
006 : 002 ← Numeral "2" means two faults have been detected.
007 : 000

101 : 000

5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

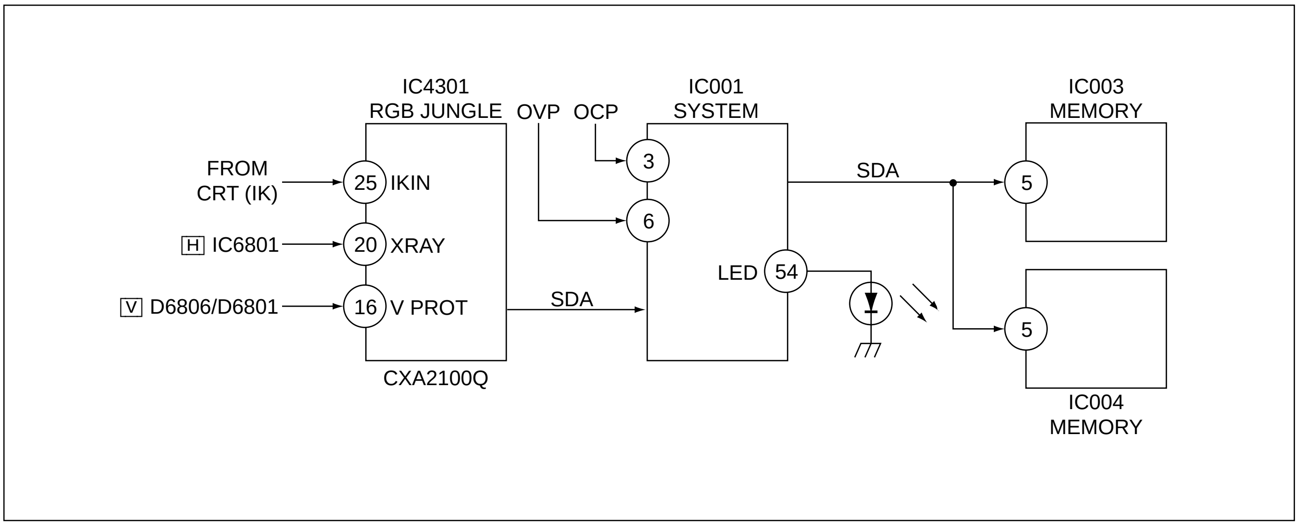
Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] ➡ 0

[Quitting Self-diagnostic screen]
To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

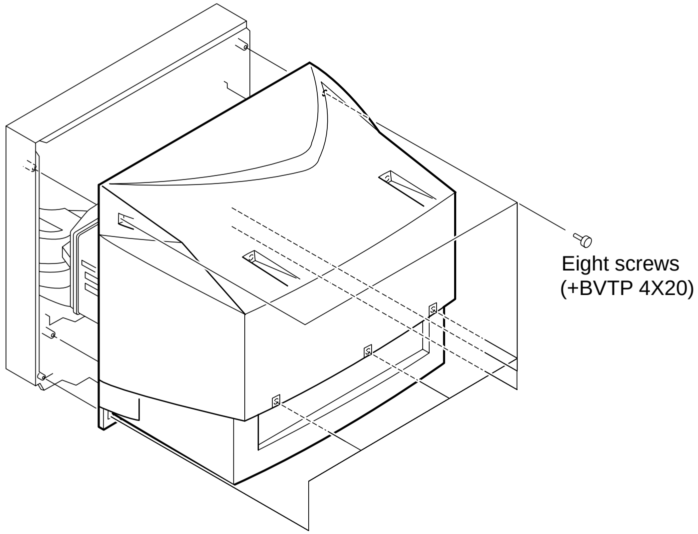
6. SELF-DIAGNOSTIC CIRCUIT



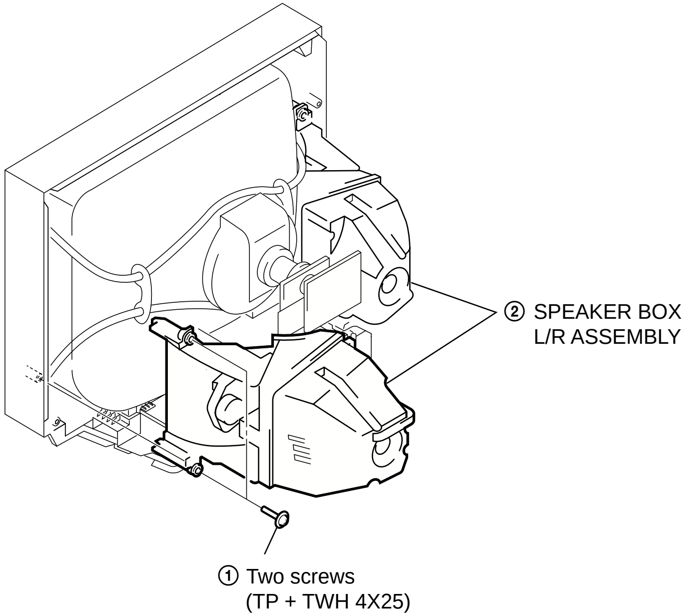
+B overcurrent (OCP)	Occurs when an overcurrent on the +B(135) line is detected by Q6610 and Q6609. If Q6610 and Q6609 go to ON, the voltage to the pin3 of IC001 go to UP. The unit will automatically turn off.
+B overvoltage (OVP)	Occurs when an overvoltage on the +B(135) line is detected by D6635, Q6611 and Q6612. If Q6611 and Q6612 go to ON, the voltage to pin6 of IC001 go to UP. The unit will automatically turn off.
Vertical deflection failure	Occurs when an absence of the vertical deflection pulse is detected by Q6811, Q6819, Q6820, Q6821 and D6801. Shut down the power supply.
White balance failure	If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4301. TV will stay on, but there will be no picture.
High voltage protector of Horizontal Deflection	Occurs when an overvoltage of horizontal pulse is detected by D6809 and IC6801. If the voltage of 7 pin of IC6801 goes to High, the voltage to pin20 of IC4301 go to UP. The unit will automatically turn off.

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

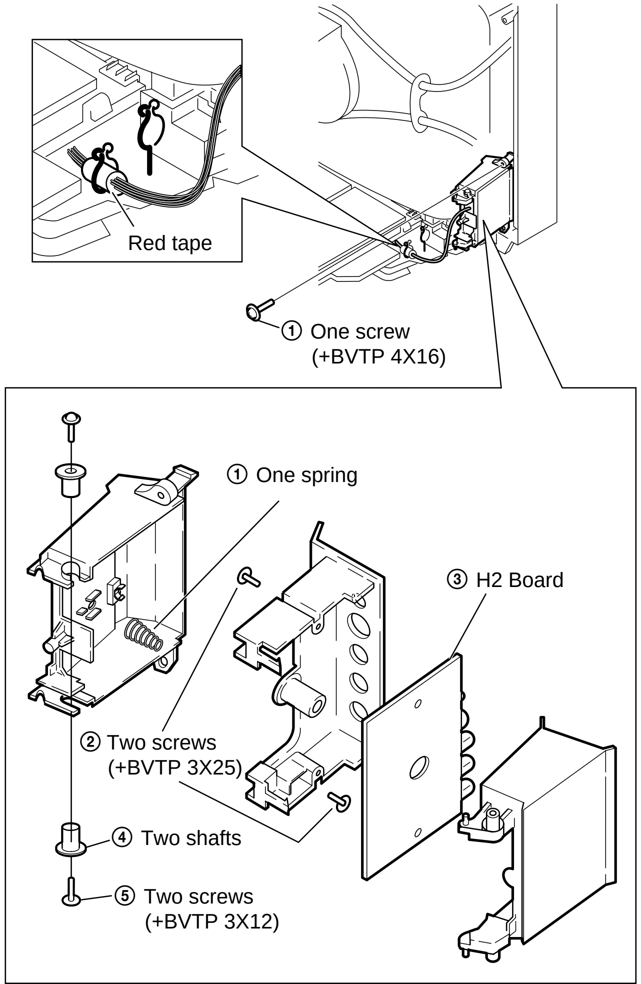


2-2. SPEAKER BOX REMOVAL

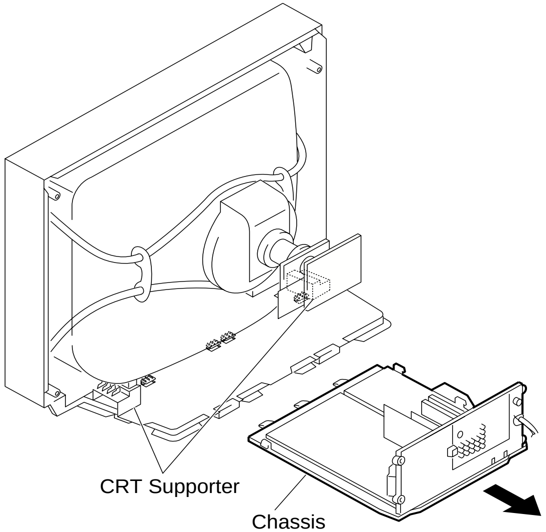


2-3. H2 BOARD REMOVAL

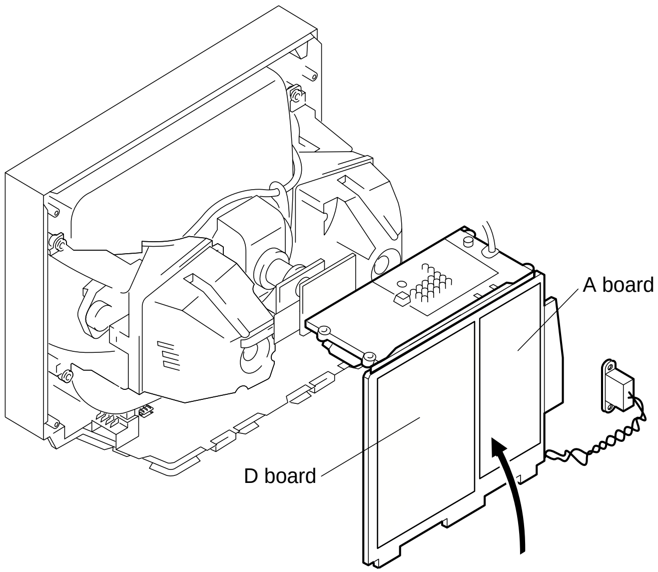
Caution: Please make sure that the red colour taped point is just placed with the purse lock when treating the leads to H2 board. If lead treatment is wrongly arranged, it will affect the door opening and closing malfunction.



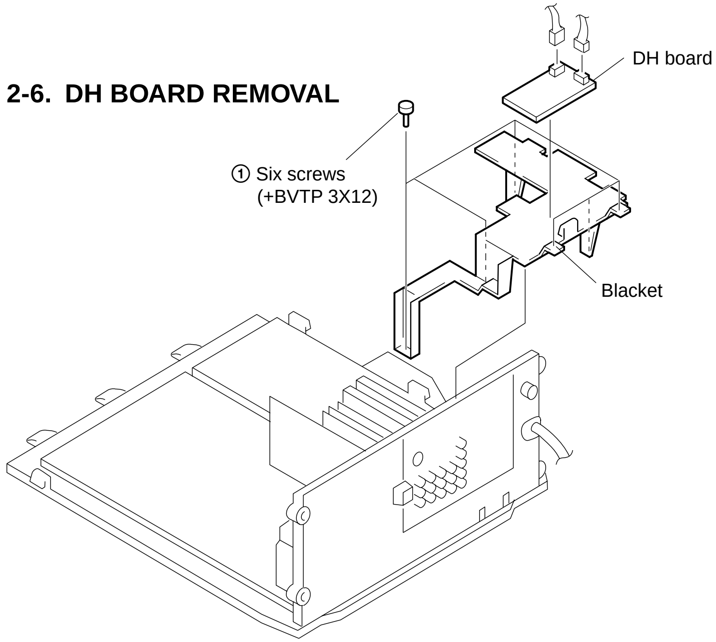
2-4. CHASSIS ASSY REMOVAL



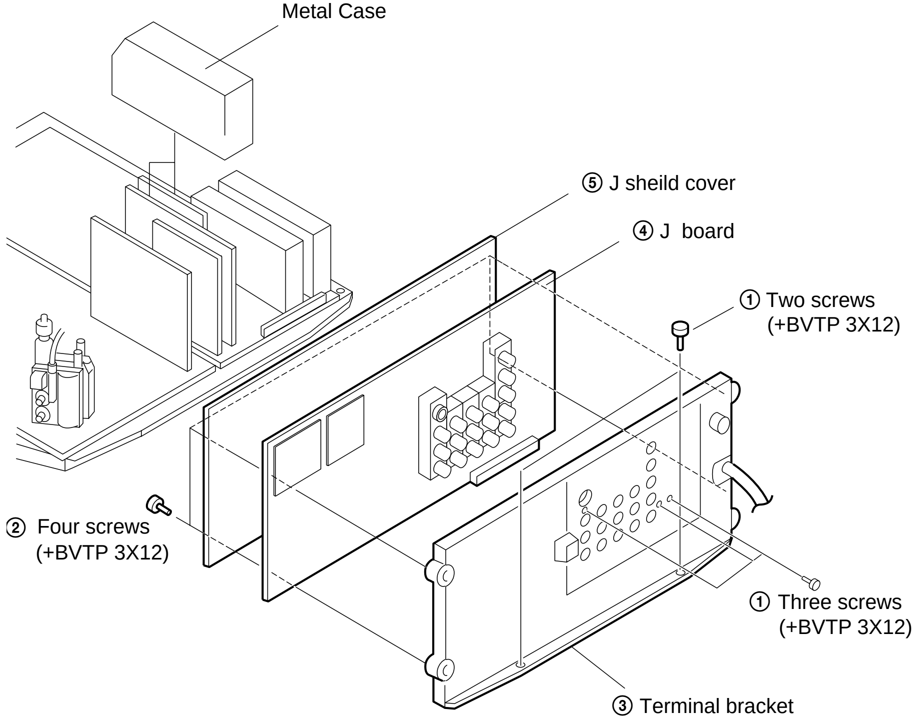
2-5. SERVICE POSITION



2-6. DH BOARD REMOVAL

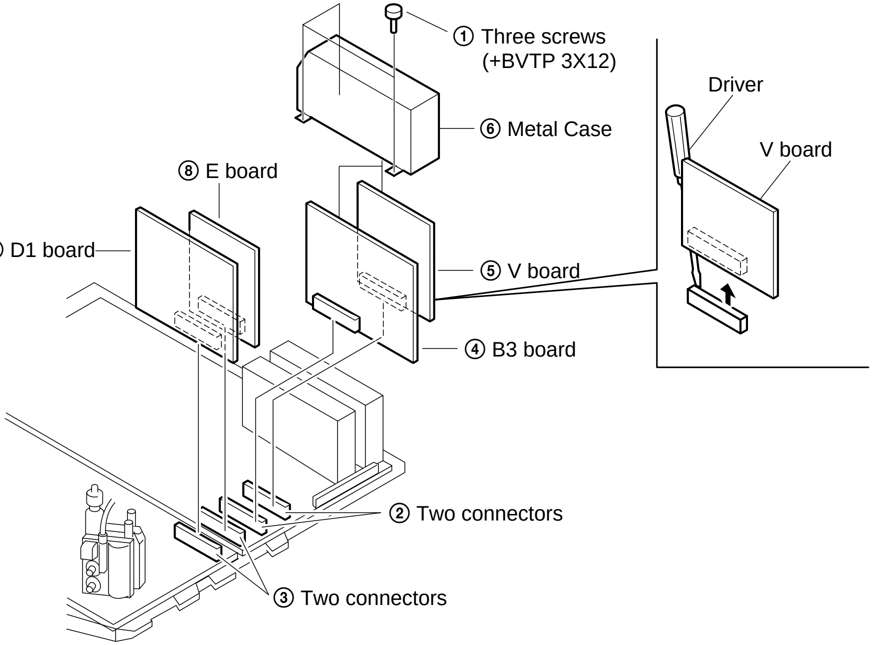


2-7. J BOARD REMOVAL

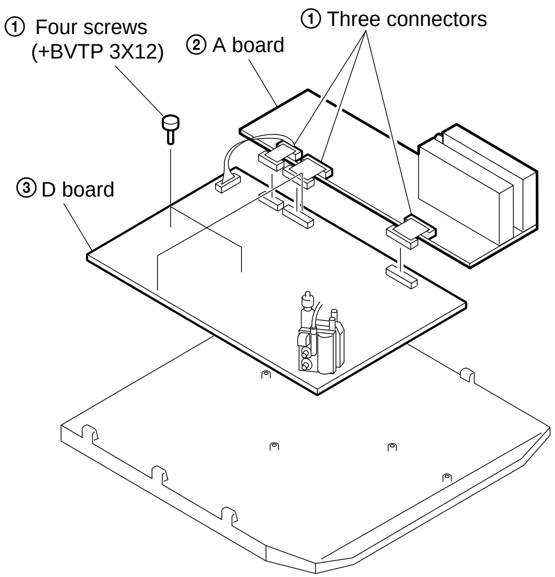


2-8. B3, D1 AND E BOARDS REMOVAL

NOTE : V Board is not used for this model.

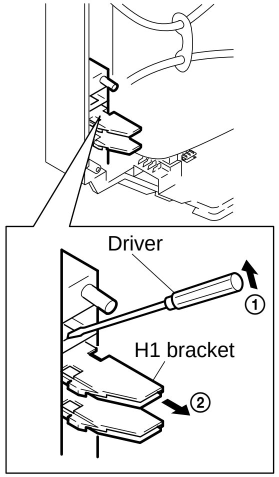


2-9. A AND D BOARDS REMOVAL



2-10. H1 BOARD REMOVAL

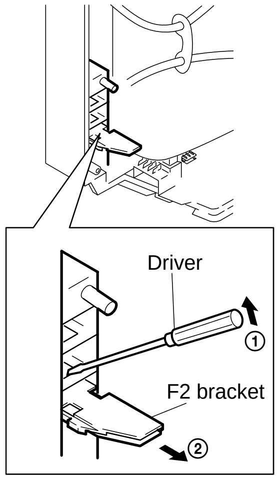
NOTE : Push the hook down using the tip of a screwdriver and at the same time pull the H1 bracket.



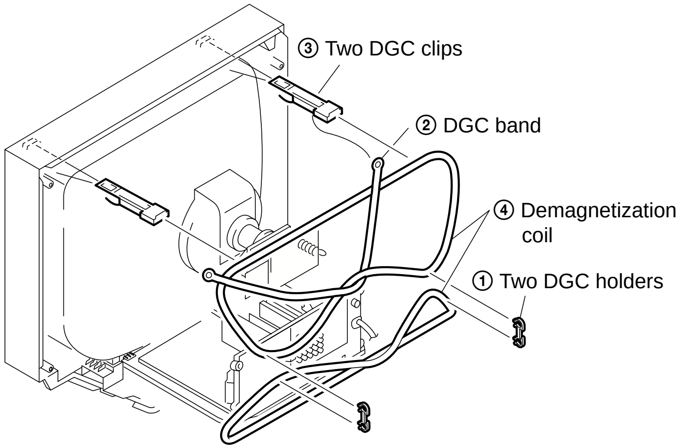
2-11. F2 BOARD REMOVAL

NOTE : To remove F2 board, firstly remove the H1 board. Then, push the hook down using the tip of a screwdriver and at the same time pull the F2 bracket.

Caution : When removing the F2 board, please turn off the main AC supply and disconnect the AC plug.

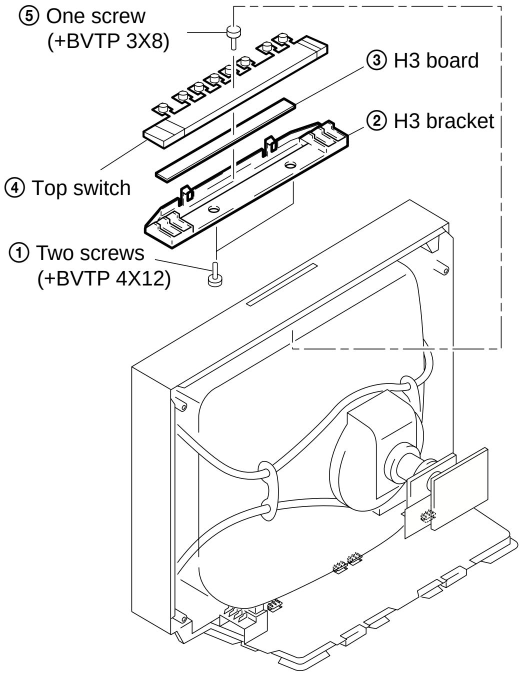


2-12. DEMAGNETIZATION COIL REMOVAL



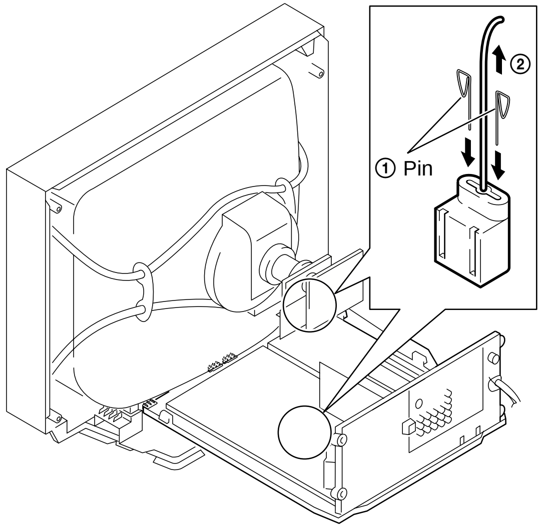
2-13. TOP SWITCH REMOVAL (H3 BOARD REMOVAL)

NOTE : To remove H3 board, the CRT has to be removed first.



2-14. G2 LEAD REMOVAL

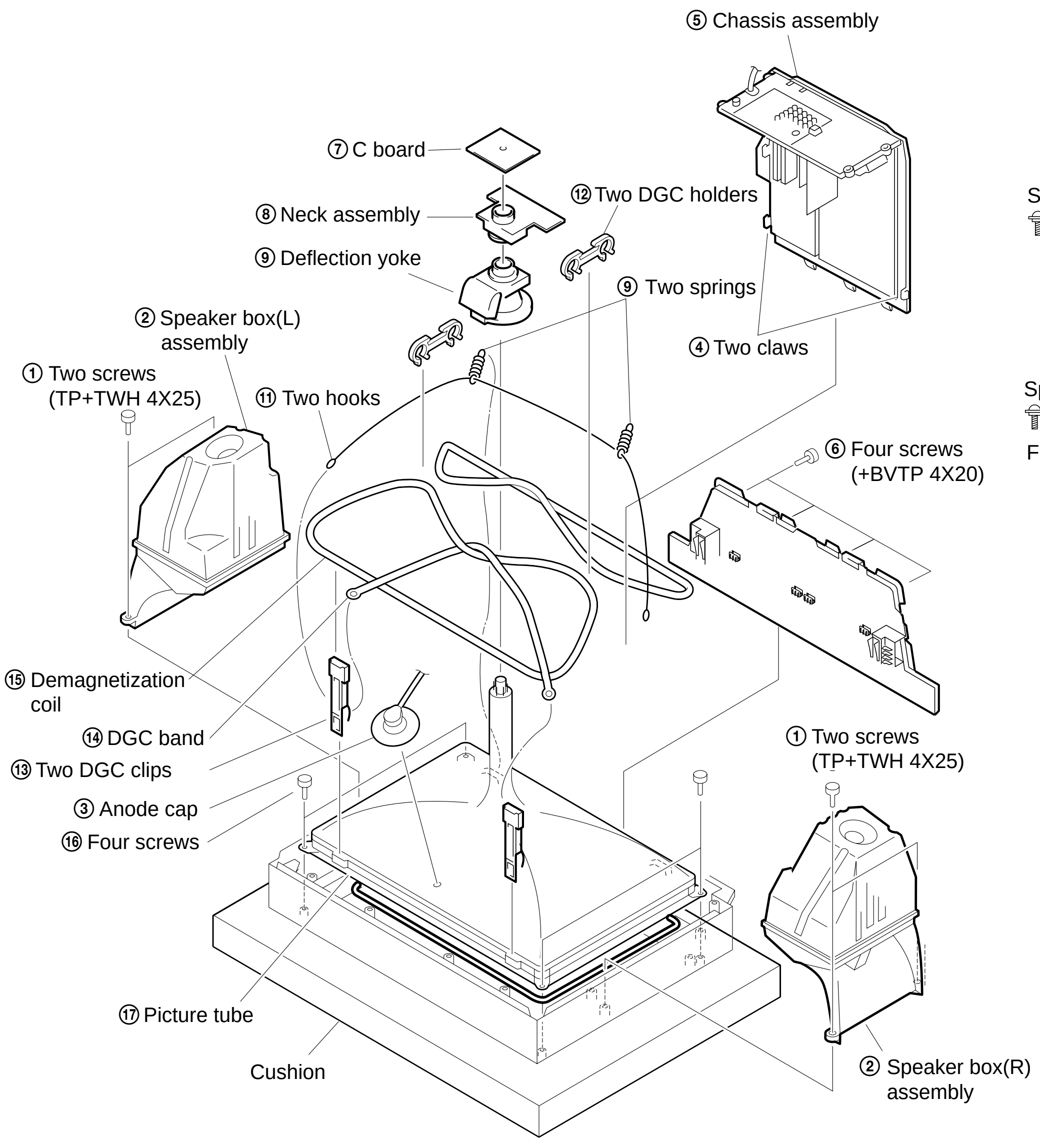
NOTE : Insert pin to both edge holes on socket and release the lock.



2-15. PICTURE TUBE REMOVAL

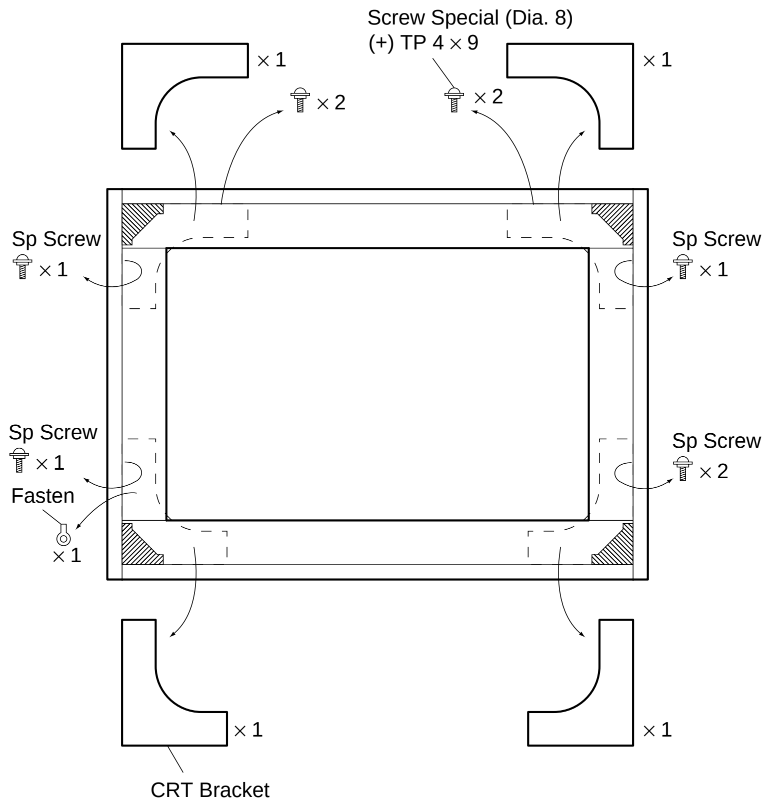
NOTE :i) Prior to picture tube removal, please remove the front cover first.

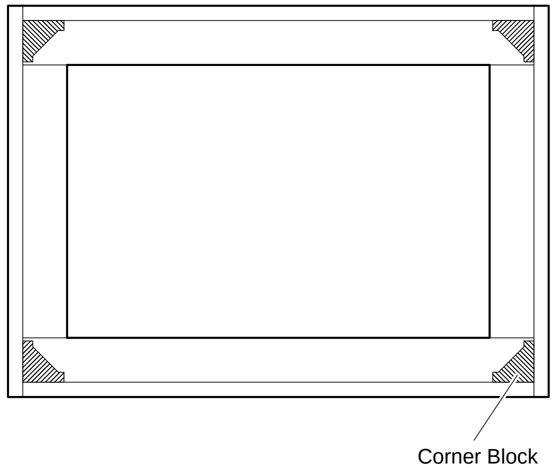
Caution : Aluminium frame is easily scratched if extra caution is not taken when handling it.



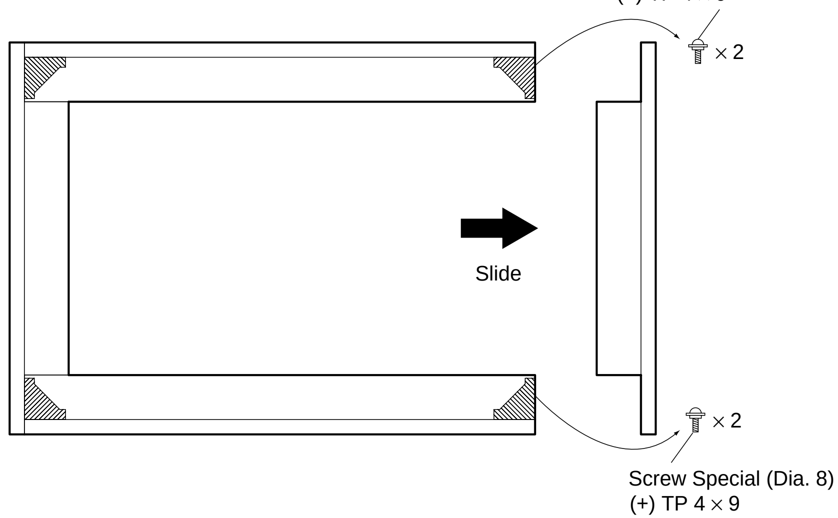
2-16. FRAME SUB-ASSY DISASSEMBLY

①

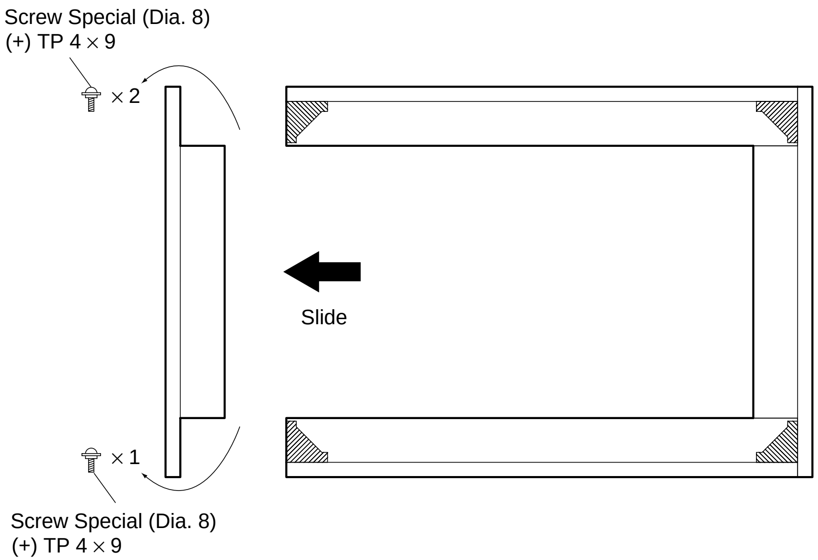




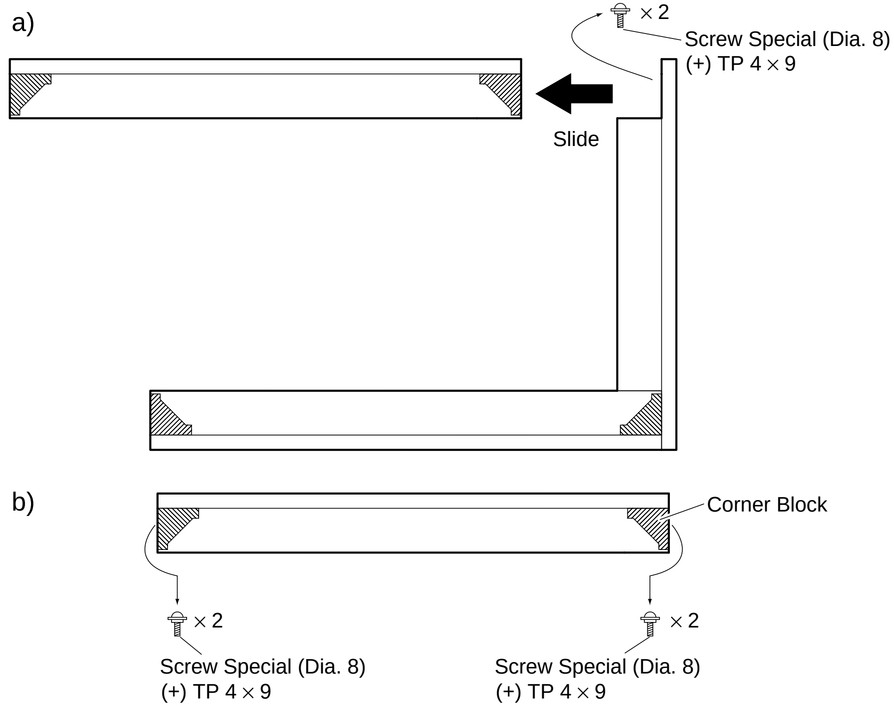
FRAME SUB ASSY, RIGHT REMOVAL



FRAME SUB ASSY, LEFT REMOVAL

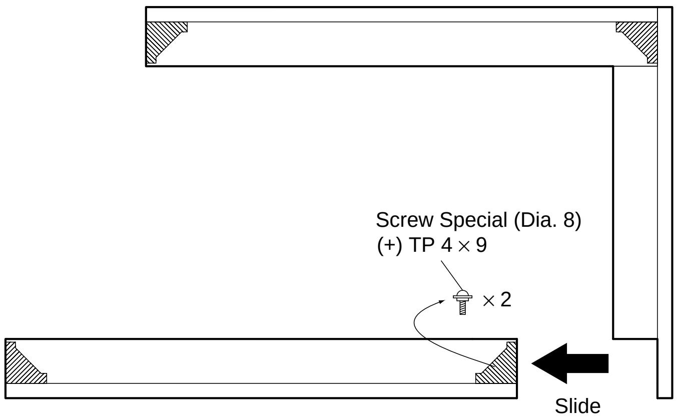


FRAME SUB ASSY, TOP REMOVAL

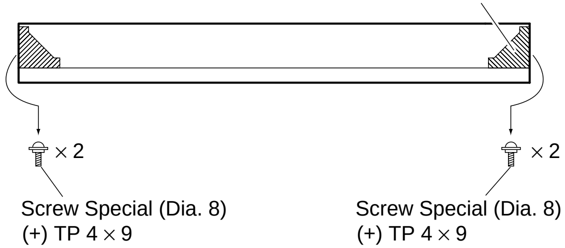


FRAME SUB ASSY, BOTTOM REMOVAL

a)



b)

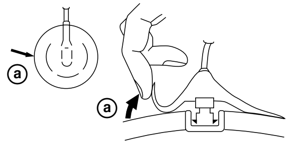


NOTE : When replacing the Frame Sub-Assy Top and Bottom, fix the original corner block to the new part.

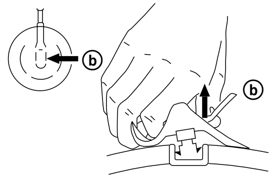
•REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

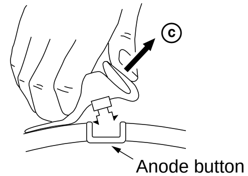
•REMOVING PROCEDURES



① **Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.**



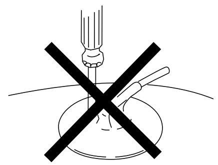
② **Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.**

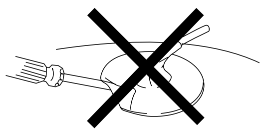


③ **When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.**

• HOW TO HANDLE AN ANODE-CAP

① **Do not damage the surface of anode-caps with sharp shaped objects.**
② **Do not press the rubber too hard so as not to damage the inside of anode-cap.**
A metal fitting called the shatter-hook terminal is built into the rubber.
③ **Do not turn the foot of rubber over too hard.**
The shatter-hook terminal will stick out or damage the rubber.



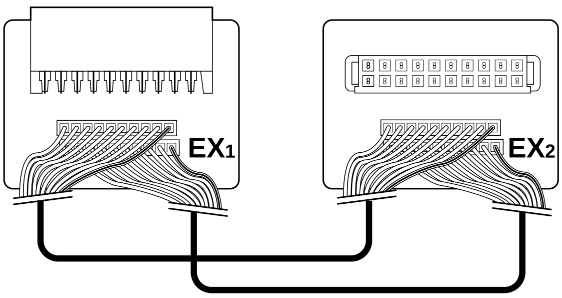


SECTION 3
SERVICE JIG

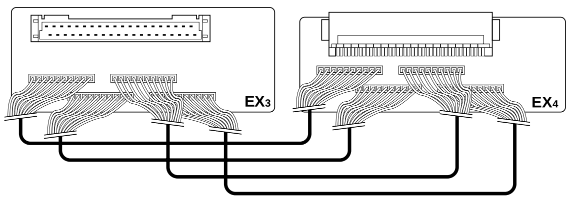
3-1. JIGS REQUIRED FOR SERVICING

REF NO.	DESCRIPTION	PART NO.	REMARK
J-1	TOOL (20P), SERVICE	3-702-763-01	For A to V board extension
J-2	TOOL (40P), SERVICE	3-702-764-01	For A to E board extension
J-3	TOOL (50P-A), SERVICE	3-702-765-01	For A to B3 board extension
J-4	TOOL (50P-J), SERVICE	3-702-766-01	For A to J board extension For D to D1 board extension

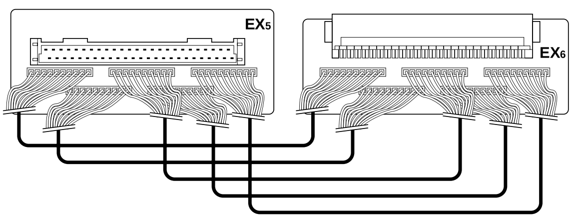
J-1



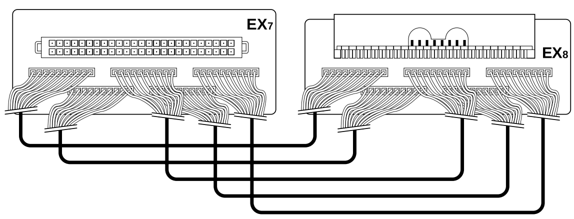
J-2



J-3



J-4



SECTION 4
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:
PICTURE control .... normal
BRIGHTNESS control .... normal

Perform the adjustments in the following order :
1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :
- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

4-1. BEAM LANDING
1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig4-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 4-1 through 4-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 4-2.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 4-4.)

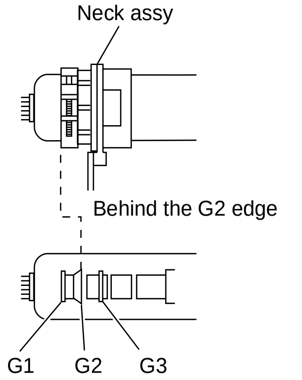
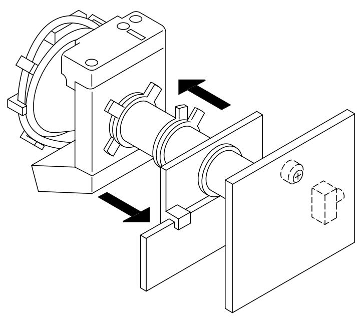


Fig. 4-1


Fig. 4-2

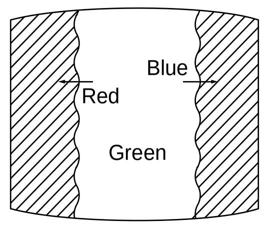


Fig. 4-3

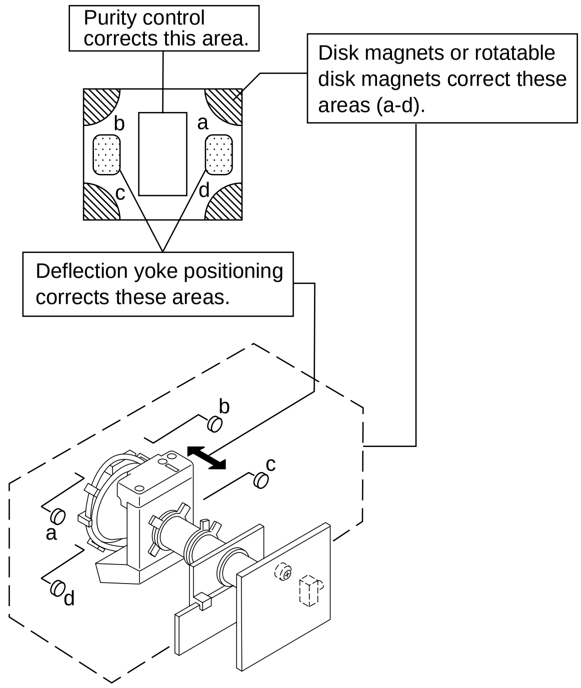


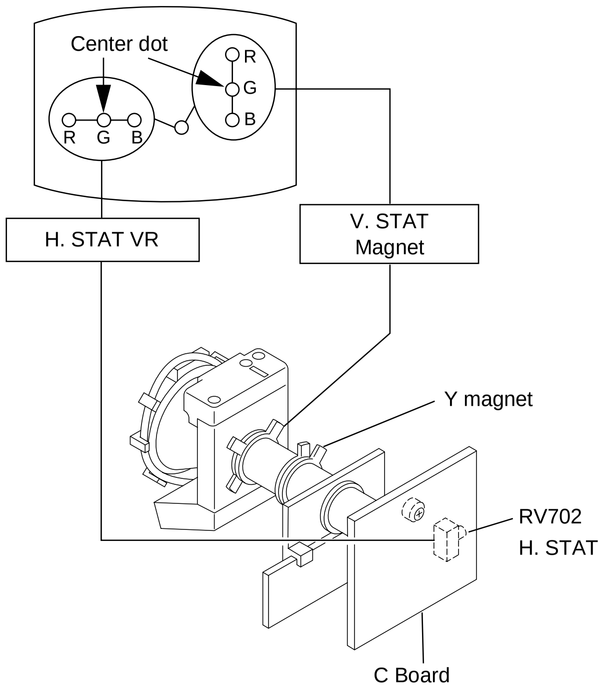
Fig. 4-4

4-2. CONVERGENCE ADJUSTMENT

Preparation :

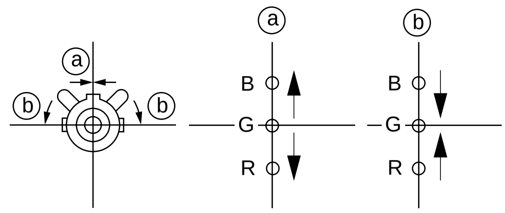
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the Picture Mode to "STANDARD".
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

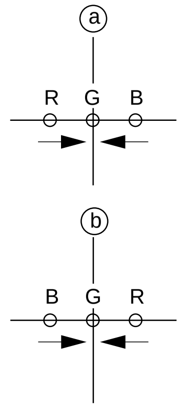


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. Adjust Horizontal Trapezoid with "DAC 04 HTR" in Service Mode to make H-Trapezoid distortion best.
4. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

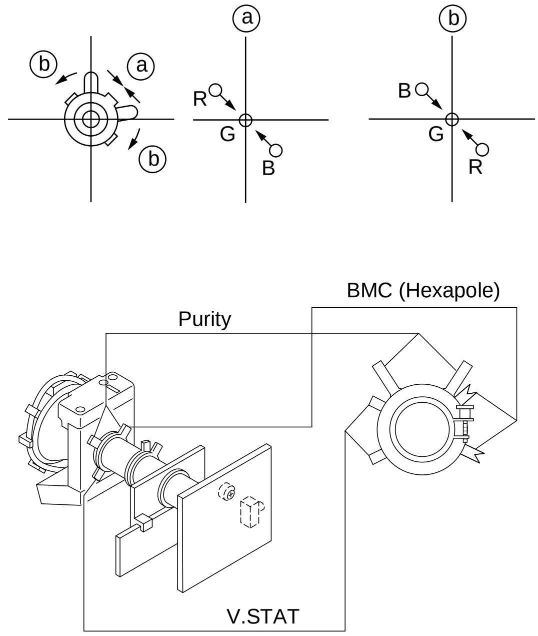
① V. STAT



② H. STAT VR

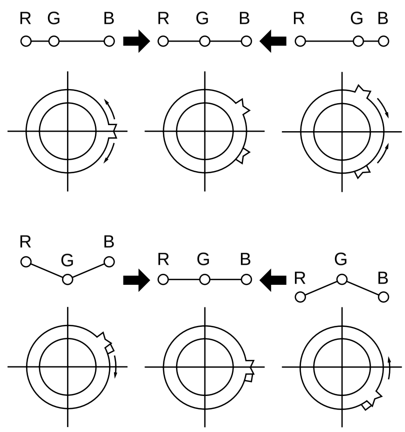


③



④ BMC (Hexapole) Magnet.

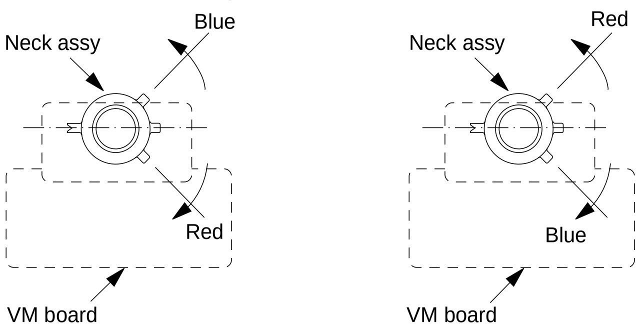
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.

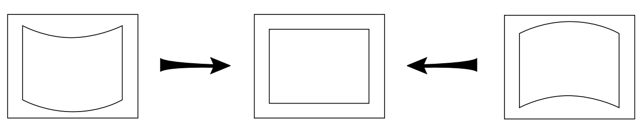


⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .

2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.





Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

Preparation:

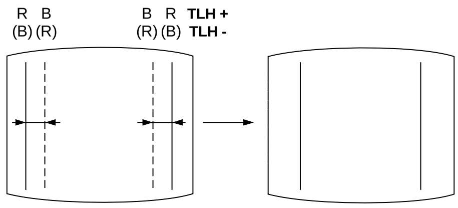
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH correction piece)

① Receive the dot/hatch pattern signal and adjust picture quality by the menu.

② Correct horizontal mis-convergence of red and blue of both sides on the X axis.

When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL–) and take both sides.



2. Adjust XCV core.

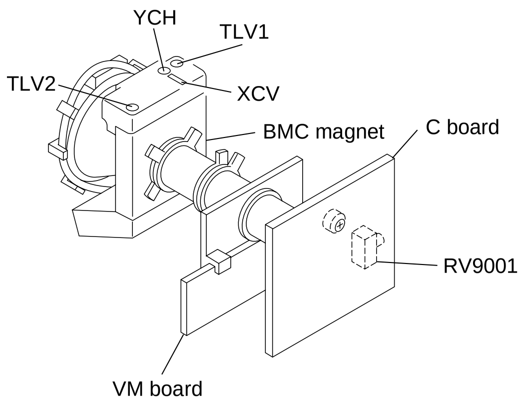
To able to become balance of XCV on the X axis well.

3. Adjust V-TILT.

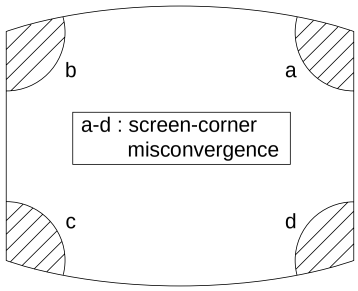
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

4. Adjust YCH.

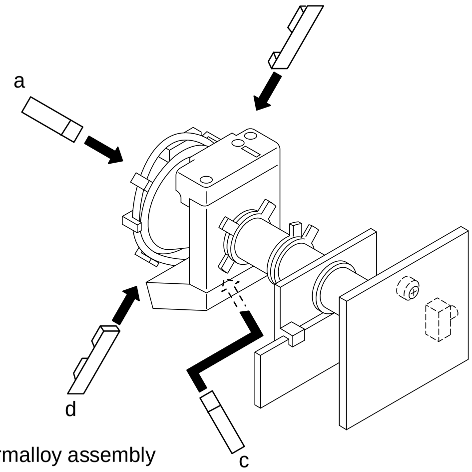
Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence



Fix a Permalloy assy corresponding to the misconverged areas.

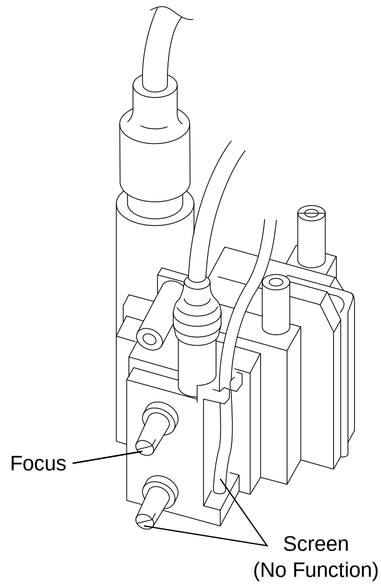


4-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

(1) Receive digital monoscope pattern.
(2) Set "A/V CONTROL" to "STANDARD".
(3) Adjust FOCUS VR so that the center of the screen becomes justfocus.
(4) Change the receiving signal to white pattern and blue back.
(5) Confirm MAGENTA RING should not be over the limit sample. In case MAGENTA RING is over the limit sample, adjust FOCUS VR to take tracking of MAGENTA RING and FOCUS.



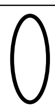
FLYBACK TRANSFORMER (T6803)

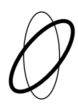
4-4. NECK ASSY TWIST ADJUSTMENT

(1) Receive dot/hatch pattern.
(2) Turn FOCUS VR fully counter-clockwise.
(3) Confirm the dot shape at the screen center. (Fig. 4-4)
(4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.


OK


Turn NECK ASSY clockwise.

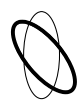
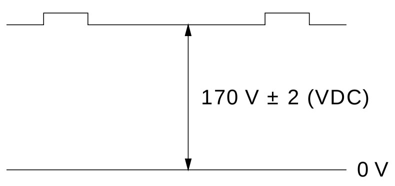

Turn NECK ASSY counter clockwise.

Fig. 4-4

4-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
5) Whilst watching the picture, adjust the screen VR (RV9002) located on the C board to the point just before the flyback return lines disappear (to the point before cut-off)



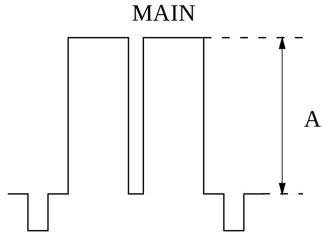
2. WHITE BALANCE ADJUSTMENT

1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
2) Input white raster signal.
3) Set the following condition.
   PICTURE minimum, BRIGHTNESS 50%
4) Select GCT (WHB 7) and BCT (WHB 8) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
5) Set the PICTURE to maximum.
6) Select GDR (WHB 4) and BDR (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
7) Write into the memory by pressing [MUTING] then [0].

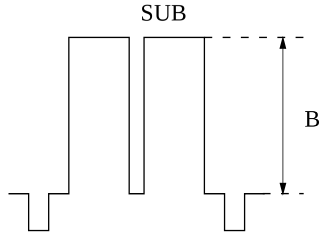
3. SUB PICTURE BRIGHTNESS ADJUSTMENT

1) Tune RF PAL white signal at program No. 1 and No. 2.
2) Select "TWIN PICTURE" mode.
3) Receive different RF PAL white signals in MAIN and Sub picture.
4) Adjust RV3300 on A PWB, so that the output from the 17 pin and 20 pin of the CN1180 becomes within the spec.

CVBS 1
17 pin



CVBS 2
20 pin



Spec: |A - B| ≤ ± 20mV

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-959 that comes with this unit.

a. ENTERING SERVICE MODE

With the unit on standby
↓
[DISPLAY]
↓
[5]
↓
[VOL (+)]
↓
[POWER]

This operation sequence puts the unit into service mode.

b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press [POWER] button on the commander), then press [POWER] button again, hereupon it becomes TV mode.

c. METHOD OF WRITE INTO MEMORY

1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN), select an item of adjustment.
3) Press [MUTING] button and it will indicate WRITE on the screen.
4) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

The screen display is :

Device Name → GEO; Item No → 00; Item Name → VSZ; Data → 29; Marking of virgin NVM → ■; Mode → SERVICE

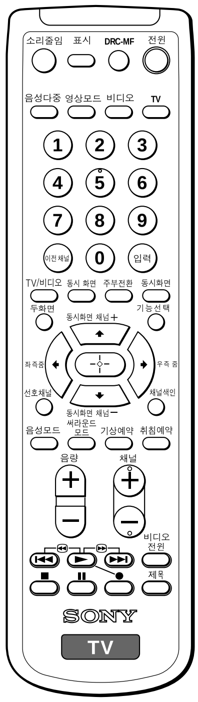
GEO	00	VSZ	29	■	SERVICE	■ 50
0	019Q	1.1N	59	FF	000A	

019Q ← Suffix No (OEM Code); 1.1N ← Software version; 000A ← Total Power-On time (hours)

50 ← PAL, SECAM : 50
NTSC : 60

[1], [4] ↓	Select the adjustment item.
[3], [6] ↓	Raise/lower the data value.
[MUTING] ↓	Writes.
[0]	Executes the writing.

[7], [0]	All the data becomes the values in memory.
[8], [0]	All user control goes to the standard state.
[5], [0]	Service data initialization (Be sure not to use usually.)
[DISPLAY], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.
[2], [0]	Copy and write all data.



RM-959

5-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

This explanation uses H-Position as an example.

1. Select “GEO 00 VSZ” with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the [MUTING] button. (The display changes to WRITE.)
5. Execute the writing with the [0] button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)

```
GEO   00   HPS   29   SERVICE   50  ← GREEN
 0   019Q  1.1N  59  FF   0   000A
```

29 — Adjusted with [3] and [6] buttons.

```
GEO   00   HPS   1F   WRITE   50  ← GREEN
 0   019Q  1.1N  59  FF   0   000A
```

Written with [MUTING]

```
GEO   00   HPS   1F   SERVICE   50  ← RED
 0   019Q  1.1N  59  FF   0   000A
```

RED — The WRITE display then the display returns to a green SERVICE.

Write executed with [0]

Use the same method for all Items. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Note :
1. In [WRITE], the data for all items are written into memory together.
2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.
3. Additional function to skip category (device) to category (device).

   example:

   GEO 00 HPS
   ↕
   DAC 00 XXX

   The buttons for the function above should be cursor +/–.

SERVICE LIST ITEM

TVG	Functionality		Function																					Device Name
				50 (PAL)								Eco Mode				60 (NTSC)								
Category	No.	Name		DRC 1050	DRC 1050 V	Progressive	Progressive V	PinP	PinP V	INDEX	TWIN	Eco On	Eco Off	Eco On V	Eco Off V	DRC 1050	DRC 1050 V	Progressive	Progressive V	PinP	PinP V	INDEX	TWIN	
GEO	00	VSZ	V SIZE	2C	2C	2C	2C	2C	2C	2C	2C					2C	2C	2C	2C	2C	2C	2C	2C	CXA2100AQ
	01	VPS	V POSITION	28	28	28	28	28	28	28	28					24	24	24	24	24	24	24	24	
	02	VLN	V LINEARITY	04	04	04	04	04	04							06	06	06	06	06	06			
	03	SCO	S CORRECTION	08	08	08	08	08	08							0A	0A	0A	0A	0A	0A			
	04	HSZ	H SIZE	2F	2F	2F	2F	2F	2F	2F	2B					2B	2B	2B	2B	2B	2B	2B	27	
	05	HPS	H POSITION	2C	28	2C	28	2C	28	2C	2C					1D	1A	1D	1A	1D	1A	24	1D	
	06	DVH	H POSITION OFFSET FOR DVD	09												07								
	07	PAP	PIN AMP	31	31	31	31	31	31							31	31	31	31	31	31			
	08	UPN	UPPER CORNER PIN	27	27	27	27	27	27	27	27					27	27	27	27	27	27	27	27	
	09	LPN	LOWER CORNER PIN	26	26	26	26	26	26	26	26					26	26	26	26	26	26	26	26	
	0A	TRZ	TRAPEZIUM	0A	0A	0A	0A	0A	0A	0A	0A					0A	0A	0A	0A	0A	0A	0A	0A	
	0B	AGL	AFC ANGLE	09	09	09	09	09	09							09	09	09	09	09	09			
	0C	BOW	AFC BOW	09	09	09	09	09	09							09	09	09	09	09	09			
	0D	**LBL**	LEFT H BLANKING	12	12	12	12	12	12	12	12					1B	1B	1B	1B	1B	1B	1B	1B	
	0E	**RBL**	RIGHT H BLANKING	2C	2C	2C	2C	2C	2C	2C	2C					21	21	21	21	21	28	21	28	
	0F	**MPN**	MIDDLE PIN DISTORTION COMPENSATION	00	00											00	00							
	10	**UVL**	UPPER V LINEARITY	00												00								
	11	**LVL**	LOWER V LINEARITY	00												00								
	12	**HCP**	HORIZONTAL HIGH VOLTAGE COMPENSATION	00	00											00	00							
	13	**VCP**	VERTICAL HIGH VOLTAGE COMPENSATION	00	00											00	00							
	14	VAS	V ASPECT	1F	1F	1F	1F	1F	1F	1D	1F					24	24	24	24	24	24	24	24	
	15	**VSC**	V SCROLL	21	21	21	21	21	21	21	21					22	22	22	22	22	22	22	22	
	16	**USC**	UNDER-SCAN MODE ON/OFF	00	01											00	01							
	17	**VBW**	V BLANKING WIDTH CONTROL	00	03	00	03	00	03							00	03	00	03	00	03			
	18	**AT1**	AKB REFERENCE TIMING	02	03	02	03	02	03							02	03	02	03	02	03			
	19	CPY	COPY THE GEO DATA TO ALL 50/60Hz NVM AREA	00												00								
DAC	00	HCT	H CENTER	1F												1F								MB88141
	01	HLN	H LINEARITY	20	20	20	20	20	20							19	19	19	19	19	19			
	02	MDP	MIDDLE PIN	22	22	22	22	22	22							22	22	22	22	22	22			
	03	**CCP**	LOWER CORNER PIN	10	10	10	10	10	10							10	10	10	10	10	10			
	04	HTR	HORIZONTAL TRAPEZIUM	0C	0C	0C	0C	0C	0C							0C	0C	0C	0C	0C	0C			
	05	**DF**	DF ON/OFF SWITCH	01	01	01	01	01	01							01	01	01	01	01	01			
	06	DPH	DF PHASE	1B	1B	1B	1B	1B	1B							19	19	19	19	19	19			
	07	QPH	QP PHASE	13	13	13	13	13	13							13	13	13	13	13	13			
	08	**QAC**	QP AMPLITUDE	23	23	23	23	23	23							23	23	23	23	23	23			
	09	**QDC**	QP DC LEVEL	20	20	20	20	20	20							20	20	20	20	20	20			
	0A	**QDV**	QP V MODULATION	1F	1F	1F	1F	1F	1F							1E	1E	1E	1E	1E	1E			
	0B	**QAV**	QP AMPLITUDE MODULATION	1A	1A	1A	1A	1A	1A							1D	1D	1D	1D	1D	1D			
	0C	**ABC**	ABL D/A CONTROL									00	00	7E	7E									

SERVICE LIST ITEM

TVG	Functionality		Function		Device
Category	No.	Name		Common	
WHB	00	**CBO**	DC OFFSET CANCELLER FOR CB1	0A	CXA2100AQ
	01	**CRO**	DC OFFSET CANCELLER FOR CR1	0A	
	02	SBR	SUB BRIGHTNESS CONTROL	21	
	03	**RDR**	R DRIVE	29	
	04	GDR	G DRIVE	21	
	05	**BDR**	B DRIVE	25	
	06	RCT	R CUTOFF	24	
	07	GCT	G CUTOFF	14	
	08	BCT	B CUTOFF	22	
	09	**SBO**	SUB BRIGHTNESS OFFSET	20	
	0A	**RDO**	R DRIVE OFFSET	1F	
	0B	**GDO**	G DRIVE OFFSET	1A	
	0C	**BDO**	B DRIVE OFFSET	1B	
	0D	**RCO**	R CUTOFF OFFSET	1F	
	0E	**GCO**	G CUTOFF OFFSET	22	
	0F	**BCO**	B CUTOFF OFFSET	16	

SERVICE LIST ITEM

TVG Category	Functionality No.	Functionality Name	Function	Common	50 TV	50 Video	50 DVD	60 TV	60 Video	60 DVD	Twin	Index	Picture Mode Dynamic	Picture Mode Standard	Picture Mode Hi-Fine	Picture Mode Personal	Eco Mode Eco-OnNC	Eco Mode Eco-OffNC	Eco Mode Eco-OnVC	Eco Mode Eco-OffVC	Device Name
SAJ	00	**PIC**	PICTURE CONTROL										3F	32	28						CXA2100AQ
	01	**BRT**	BRIGHTNESS CONTROL										23	1F	1B						
	02	COL	COLOR CONTROL										27	1F	1F						
	03	**HUE**	HUE CONTROL										1F	1F	1F						
	04	**SHP**	SHARPNESS CONTROL										22	1F	1D						
	05	**VML**	VM LEVEL										03	02	01	02					
	06	**DYC**	DYNAMIC COLOR ON/OFF										01	01	00	01					
	07	**CTM**	COLOR TEMPERATURE FOR DYNAMIC COLOR										00	00	00	00					
	08	**CAX**	COLOR MATRIX SPECIFICATION		02	02	02	01	01	01											
	09	**GMA**	GAMMA CORRECTION										02	02	03	02					
	0A	**DCT**	DC TRANSMISSION CONTROL										01	01	00	01					
	0B	**DPL**	AUTO PEDESTAL LEVEL CONTROL										02	01	00	01					
	0C	**ABM**	ABL MODE CONTROL										01	00	00	00					
	0D	**ABT**	ABL CURRENT DETECTION VTH CONTROL														02	00	02	00	
	0E	**CLO**	COLOR OFFSET		09	08		06	06												
	0F	**CLW**	COLOR STEP WIDTH TO THE CHANGE OF S/N	03																	
	10	**HUO**	HUE OFFSET		08	08		09	09												
	11	**SHO**	SHARPNESS OFFSET		12	14	0F	09	0F	0F											
	12	**SHW**	SHARPNESS STEP WIDTH TO THE CHANGE OF S/N	01																	
	13	PIO	PICTURE OFFSET FOR TWIN/INDEX								03	04									
	14	**BRO**	BRIGHTNESS OFFSET														07	07	07	07	
JGL	00	**PON**	RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF	01																	CXA2100AQ
	01	**RGB**	RGB OUTPUT SELECTION	07																	
	02	**AGG**	AGING MODE SELECTION	00																	
	03	**DPS**	Y/C DELAY LINE PASS MODE SWITCH	00																	
	04	**BBT**	RGB BOTTOM LIMITTER CONTROL	03																	
	05	**LML**	RGB AMPLITUDE LIMITTER CONTROL	00																	
	06	**PAB**	DC LEVEL FOR PEAK ABL	0F																	
	07	**SCO**	SUB PICTURE CONTROL	07																	
	08	**LV2**	RGB LEVEL FOR RGB2	07																	
	09	**SF0**	SHARPNESS CIRCUIT F0		01	01	01	01	01	01											
	0A	**PRO**	PRE/OVER-SHOOT RATIO CONTROL		00	03	03	03	03	03											
	0B	**LTI**	LUMINANCE TRANSIENT IMPROVEMENT										02	02	00	02					
	0C	**CTI**	CHROMINANCE TRANSIENT IMPROVEMENT										01	01	00	01					

SERVICE LIST ITEM

TVG Category	Functionality No.	Functionality Name	Function	Common	2D Comb	3D Comb	S-Input	Others	TV 50	TV 60	Video 50	Video 60	DVD 50	DVD 60	Device Name
YCT	00	TNT	TINT ADJUSTMENT FOR NTSC						23	23	23	23			CXA2123Q
	01	PNG	PAL/NTSC GATE WIDTH	01											
	02	**PNI**	PAL/NTSC SENSITIVITY SW	00											
	03	SCL	SUB COLOR CONTROL						05	07	08	06			
	04	SCT	SUB CONTRAST CONTROL						08	05	08	07			
	05	**SF0**	SHARPNESS CENTER FREQUENCY CHANGING	02											
	06	**SEQ**	SHARPNESS EQUALIZER CHARACTERISTIC	03											
	07	SHG	SHARPNESS GAIN CONTROL						05	0A	05	06	07	07	
	08	YOL	Y-OUTPUT LEVEL CONTROL	1A											
	09	**BSP**	BLACK STRETCH START POINT CHANGING	00											
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	17											
	0B	**DCR**	DC RESTORATION RATIO ADJUSTMENT	00											
	0C	**BF0**	BPF/TQF F0 ADJUSTMENT	01											
	0D	**BFQ**	BPF/TQF Q ADJUSTMENT	02											
	0E	**FSW**	BPF/TQF SWITCH	01											
	0F	**SDT**	SECAM DOUBLE TRAP SWITCH	01											
	10	**LPF**	Y/CB/CR LPF SWITCH	01											
	11	**YDL**	Y-DL TIME ADJUSTMENT		06	05	03	05							
	12	**CMT**	CB/CR OUTPUT MUTE SWITCH	00											
	13	**BO1**	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)	07											
	14	**RO1**	CR OFFSET1 ADJUSTMENT	07											
	15	**CDF**	V COUNT DOWN FREQUENCY SWITCH	00											
	16	**CDM**	V COUNT DOWN JUDGE SWITCH	00											
	17	**AFC**	AFC SENSITIVITY SWITCH								00	00	00	00	
	18	**MVM**	MACROVISION MASK + AFC MASK	00											
	19	**SRY**	SECAM R-Y BLACK ADJUSTMENT	07											
	1A	**SBY**	SECAM B-Y BLACK ADJUSTMENT	01											
	1B	**BEL**	SECAM BELL/HPF SWITCHING	02											
	1C	**BLF**	BELL F0 ADJUSTMENT	00											
	1D	**SVI**	SECAM V-ID SWITCH	00											
	1E	**SGP**	SECAM GATE POSITION ADJUSTMENT	00											
	1F	**SID**	SECAM SENSITIVITY SWITCH	01											
	20	**SIH**	SECAM INHIBITION SWITCH	00											
	21	**STP**	Y BLACK LEVEL SETUP FOR PAL PLUS	00											
	22	**HVC**	H-VCO TEMPERATURE CHARACTER CANCELLING	02											
	23	**3NR**	3D NR OPERATION ON/OFF	01											
	24	**BW6**	3D NR FOR 60Hz NON-BUST SIGNAL ON/OFF	01											
	25	**WSH**	SHARPNESS GAIN STEP FOR NOISE REDUCTION	00											
	26	**WCO**	DC RESTORATION RATIO ADJUSTMENT	00											

SERVICE LIST ITEM

TVG Category	Functionality No.	Functionality Name	Function	Common	S-Input	Col Mode SECAM	Col Mode NTSC	Col Mode PAL	TV 50	TV 60	Video 50	Video 60	DVD	Device Name
SYC	00	TNT	TINT ADJUSTMENT FOR NTSC						22	22	22	22		CXA2123Q
	01	PNG	PAL/NTSC GATE WIDTH	01										
	02	**PNI**	PAL/NTSC SENSITIVITY SW	00										
	03	SCL	SUB COLOR CONTROL						06	07	09	06		
	04	SCT	SUB CONTRAST CONTROL						08	04	08	07		
	05	**SF0**	SHARPNESS CENTER FREQUENCY CHANGING	02										
	06	**SEQ**	SHARPNESS EQUALIZER CHARACTERISTIC	03										
	07	**SHG**	SHARPNESS GAIN CONTROL	07										
	08	YOL	Y-OUTPUT LEVEL CONTROL	1B										
	09	**BSP**	BLACK STRETCH START POINT CHANGING	00										
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	1A										
	0B	**DCR**	DC RESTORATION RATIO ADJUSTMENT	00										
	0C	**BF0**	BPF/TQF F0 ADJUSTMENT	01										
	0D	**BFQ**	BPF/TQF Q ADJUSTMENT	02										
	0E	**FSW**	BPF/TQF SWITCH	01										
	0F	**SDT**	SECAM DOUBLE TRAP SWITCH	01										
	10	**LPF**	Y/CB/CR LPF SWITCH	01										
	11	YDL	Y-DL TIME ADJUSTMENT		05	03	03	03						
	12	**NCM**	1-H ADDITION SWITCH	01										
	13	**CMT**	CB/CR OUTPUT MUTE SWITCH	00										
	14	**BO1**	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)	07										
	15	**RO1**	CR OFFSET1 ADJUSTMENT	07										
	16	**CDF**	V COUNT DOWN FREQUENCY SWITCH	00										
	17	**CDM**	V COUNT DOWN JUDGE SWITCH	00										
	18	**AFC**	AFC SENSITIVITY SWITCH								00	00	00	
	19	**MVM**	MACROVISION MASK + AFC MASK	00										
	1A	**SRY**	SECAM R-Y BLACK ADJUSTMENT	07										
	1B	**SBY**	SECAM B-Y BLACK ADJUSTMENT	01										
	1C	**BEL**	SECAM BELL/HPF SWITCHING	02										
	1D	**BLF**	BELL F0 ADJUSTMENT	00										
	1E	**SVI**	SECAM V-ID SWITCH	00										
	1F	**SGP**	SECAM GATE POSITION ADJUSTMENT	00										
	20	**SID**	SECAM SENSITIVITY SWITCH	01										
	21	**SIH**	SECAM INHIBITION SWITCH	00										
	22	**STP**	Y BLACK LEVEL SETUP FOR PAL PLUS	00										
	23	**HVC**	H-VCO TEMPERATURE CHARACTER CANCELLING	02										

SERVICE LIST ITEM

TVG	Functionality		Function										Device Name
Category	No.	Name		Common	Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur Off	Dynamic	Drama	Soft	
AP	00	**BAS**	BASS CONTROL							0B	09	07	TDA7315
	01	**TRE**	TREBLE CONTROL							0B	09	07	
	02	**LDN**	LOUDNESS ON/OFF	01									

TVG	Functionality		Function		Device
Category	No.	Name		Common	
MSP	00	**WST**	W/G STEREO THRESHOLD	15	MSP3415D
	01	**WBT**	W/G BILINGUAL THRESHOLD	EA	
	02	**WLL**	W/G MONOAURAL THRESHOLD	05	
	03	**WAC**	W/G AGREEMENT COUNT	01	
	04	**WDL**	W/G SEARCH DELAY	30	
	05	**NDL**	NICAM SEARCH DELAY	20	
	06	**SDL**	STEREO STATUS READ DELAY	10	
	07	**AGC**	AGC SWITCH AUTO/CONSTANT	01	
	08	**REL**	AGC GAIN AT CONSTANT MODE	28	
	09	**CRM**	CARRIER MUTING ON/OFF	00	
	0A	**ACO**	AUDIO CLOCK ON/OFF	01	
	0B	**FP**	FM PRESCALE FOR NON-M SYSTEM	1B	
	0C	**FPM**	FM PRESCALE FOR M SYSTEM	32	
	0D	**FH**	FM PRESCALE FOR HDEV	2D	
	0E	**FHM**	FM PRESCALE FOR HDEV AND M	65	
	0F	**WGP**	W/G PRESCALE	2A	
	10	**NIP**	NICAM PRESCALE	6D	
	11	**ERR**	AUTO FM SWITCH THRESHOLD	50	
	12	**VOL**	LOUDSPEAKER GAIN 0700H TO 07FFH	6D	

SERVICE LIST ITEM

TVG Category	Functionality No.	Functionality Name	Function	Common	Twin	TV	Video	Picture Mode: Dynamic	Picture Mode: Standard	Picture Mode: Hi-Fine	Picture Mode: Personal	Device Name
LTI	00	**LDH**	HISTOGRAM SEGMENT SELECTION	01								TDA9178
	01	**CFS**	CONTOUR FILTER SELECTION	01								
	02	**WLB**	LETTERBOX WINDOW SWITCH	00								
	03	**VDC**	VIDEO DEPENDENT CORING					01	01	01	01	
	04	**DEM**	DEMONSTRATION MODE	00								
	05	**CDP**	LUMINANCE DELAY	04								
	06	**OSP**	OVERRULE SMART PEAKING	00								
	07	**WPO**	WHITE POINT STRETCH OFF	00								
	08	**DSK**	SKIN TONE SWITCH					00	00	00	00	
	09	**ASK**	SKIN TONE ANGLE SELECTION	00								
	0A	**WSK**	SKIN TONE WIDTH SELECTION	00								
	0B	**SSK**	SKIN TONE SIZE SELECTION	00								
	0C	**DGR**	GREEN ENHANCEMENT SWITCH		00			01	01	00	01	
	0D	**DGT**	THRESHOLD OF GREEN ENHANCEMENT SWITCH	07								
	0E	**GGR**	GREEN ENHANCEMENT GAIN	00								
	0F	**WGR**	GREEN ENHANCEMENT WITDH	00								
	10	**SGR**	GREEN ENHANCEMENT SIZE	00								
	11	**DBL**	BLUE STRETCH SWITCH	00								
	12	**GBL**	BLUE STRETCH GAIN SELECTION	00								
	13	**SBL**	BLUE STRETCH SIZE SELECTION	00								
	14	**CDS**	COLOR DEPENDENT SHARPNESS					01	01	00	01	
	15	**CST**	THRESHOLD OF COLOR DEPENDENT SHARPNESS	07								
	16	**CTI**	COLOR TRANSIENT IMPROVEMENT					00	00	00	00	
	17	**BON**	BLACK OFFSET COMPENSATION					00	00	00	00	
	18	**BTD**	ADAPTIVE BLACK STRETCH					00	00	00	00	
	19	**NLD**	NON-LINEARITY AMPLIFIER		00			15	15	00	15	
	1A	**NLW**	STEP WIDTH OF NON-LINEARITY AMPLIFIER	07								
	1B	**VGD**	VARIABLE GAMMA		1F			1F	1F	1F	1F	
	1C	**VGW**	STEP WITDH OF VARIABLE GAMMA	00								
	1D	**PKD**	PEAKING AMPLITUDE					3F	2B	0E	2B	
	1E	**PKW**	STEP WIDTH OF PEAKING AMPLITUDE	08								
	1F	**SPD**	STEPNESS CORRECTION					00	00	00	00	
	20	**CRD**	CORING LEVEL					1B	1B	00	1B	
	21	**CRW**	STEP WIDTH OF CORING LEVEL	09								
	22	**CRO**	CORING LEVEL OFFSET FOR VIDEO MODE	06								
	23	**LWD**	LINE WIDTH CORRECTION	1F								
	24	**SNM**	S/N MODE UNDER UNREALIBLE S/N CONDITION	00								
	25	**SNC**	S/N RATIO AVERAGE COUNTER			03	03					
	26	**FMC**	FEATURE MODE MATCHING COUNTER	02								

SERVICE LIST ITEM

TVG	Functionality		Function	50					60					Device Name
Category	No.	Name		DRC 1050	PinP	TWIN	INDEX	Progressive	DRC 1050	PinP	TWIN	INDEX	Progressive	
MID	00	HPH	HORIZONTAL ACTIVE DISPLAY AREA PHASE	52	52	92	8D	52	52	52	7C	7C	52	MB94918
	01	VPH	VERTICAL ACTIVE DISPLAY AREA PHASE	20	20	2A	26	20	25	25	2D	2D	25	
	02	HSZ	HORIZONTAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	03	VSZ	VERTICAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	04	HPW	DISPLAY H-SYNC PLUS WIDTH	3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	
	05	VPW	DISPLAY V-SYNC PLUS WIDTH	03	03	03	03	03	07	07	07	07	07	
	06	YDL	DISPLAY OUTPUT Y/C DELAY CORRECTION	00	00	00	00	00	00	00	00	00	00	
	07	MHP	MAIN PICTURE HORIZONTAL POSITION (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	08	MVP	MAIN PICTURE VERTICAL POSITION (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	09	MHS	MAIN PICTURE HORIZONTAL SIZE (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	0A	MVS	MAIN PICTURE VERTICAL SIZE (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	0B	PHP	PINP SUB PICTURE HORIZONTAL POSITION		6B					53				
	0C	PVP	PINP SUB PICTURE VERTICAL POSITION		5E					57				
	0D	PHS	PINP SUB PICTURE HORIZONTAL SIZE		7F					7F				
	0E	PVS	PINP SUB PICTURE VERTICAL SIZE		7F					7F				
	0F	PHO	PINP SUB PICTURE HORIZONTAL POSITION OFFSET		76					68				
	10	PVO	PINP SUB PICTURE VERTICAL POSITION OFFSET		6E					6B				
	11	TMP	TWIN MAIN PICTURE HORIZONTAL POSITION			00					00			
	12	TSP	TWIN SUB PICTURE HORIZONTAL POSITION											
	13	TVP	TWIN MAIN & SUB PICTURE VERTICAL POSITION											
	14	THS	TWIN MAIN & SUB PICTURE HORIZONTAL SIZE											
	15	TVS	TWIN MAIN & SUB PICTURE VERTICAL SIZE											
	16	THO	TWIN MAIN & SUB PICTURE HORIZONTAL POSITION OFFSET											
	17	TVO	TWIN MAIN & SUB PICTURE VERTICAL POSITION OFFSET											
	18	XHS	INDEX SUB PICTURE HORIZONTAL SIZE											
	19	XVS	INDEX SUB PICTURE VERTICAL SIZE											
	1A	XHG	INDEX HORIZONTAL GAP WIDTH BETWEEN PICTURES											
	1B	XVG	INDEX VERTICAL GAP WIDTH BETWEEN PICTURES											
	1C	XHP	INDEX 1ST SUB PICTURES HORIZONTAL POSITION											
	1D	XVP	INDEX 1ST SUB PICTURES VERTICAL POSITION											
	1E	DHP	DRC HORIZONTAL ACTIVE AREA POSITION	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	1F	DHS	DRC HORIZONTAL ACTIVE PIXEL SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	

SERVICE LIST ITEM

TVG	Functionality		Function	50					60					Device Name
Category	No.	Name		DRC 1050	PinP	TWIN	INDEX	Progressive	DRC 1050	PinP	TWIN	INDEX	Progressive	
MID	20	DVP	DRC VERTICAL ACTIVE AREA LINE POSITION	1A	1A	3F	3F	1A	1A	1A	39	39	1A	MB94918
	21	DVS	DRC VERTICAL ACTIVE AREA LINE SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	22	VHP	VDO HORIZONTAL ACTIVE AREA POSITION		7F	7F	7F			7F	7F	7F		
	23	VHS	VDO HORIZONTAL ACTIVE AREA PIXEL SIZE		7F	7F	7F			7F	7F	7F		
	24	VEP	VDO VERTICAL ACTIVE AREA EVEN POSITION		1E	1E	1E			1B	1B	1B		
	25	VVS	VDO VERTICAL ACTIVE AREA LINE SIZE		7F	7F	7F			7F	7F	7F		
	26	VOP	VDO VERTICAL ACTIVE AREA ODD POSITION		00	00	00			00	00	00		
	27	CLT	VDO CLAMP PULSE OUTPUT TIMING		7F	7F	7F			7F	7F	7F		
	28	CLW	VDO CLAMP PULSE WIDTH		04	04	04			04	04	04		
	29	VYD	VDO ANALOG INPUT Y/C DELAY CORRECTION		00	00	00			00	00	00		
	2A	VCR	VDO CROMA SIGNAL ORDER		01	01	01			01	01	01		
	2B	VDI	VDO DIGITAL ANALOG INPUT SELECTION		01	01	01			01	01	01		

SERVICE LIST ITEM

TVG	Functionality		Function				NR Mode				Picture Mode				Device Name
Category	No.	Name		Common	TV	Video	NRmode0	NRmode1	NRmode2	NRmode3	Dynamic	Standard	Hi-Fine	Personal	
3CM	00	**FRZ**	EXTERNAL MEMORY TEST BIT	00											UPD64082
	01	**NRM**	NOISE REDUCTION OPERATION MODE	00											
	02	**YCO**	Y/C SIGNAL OUTPUT SELECTION	0D											
	03	**SYC**	SYSTEM CLOCK SELECTION	01											
	04	**STD**	STANDARD/NON-STANDARD OPERATION SELECTION	00											
	05	**MSS**	INTER-FRAME/INTER-LINE OPERATION SELECTION	00											
	06	**KIL**	KILLER/NON-KILLER OPERATION SELECTION	03											
	07	**EAD**	EXTERNAL Y-ADC SWITCH	00											
	08	**ECS**	EXTERNAL C-SYNC INPUT SELECTION	01											
	09	**CPP**	ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION	02											
	0A	**PWR**	ADC INPUT WIDTH SWITCH	00											
	0B	**HDP**	HORIZONTAL PHASE ADJUSTMENT	05											
	0C	**CDL**	C-SIGNAL ADJUSTMENT	04											
	0D	**DYC**	DY DETECTION CORING LEVEL ADJUSTMENT				02	02	02	04					
	0E	**DYG**	DY DETECTION GAIN ADJUSTMENT				0A	0A	0A	0A					
	0F	**DCC**	DC DETECTION CORING LEVEL ADJUSTMENT				05	03	03	05					
	10	**DCG**	DC DETECTION GAIN ADJUSTMENT				05	0A	0A	05					
	11	**YNR**	YNR NON-LINEAR FILTER SETUP	01											
	12	**CNR**	CNR NON-LINEAR FILTER SETUP	01											
	13	**WSC**	NOISE DETECTION CORING ADJUSTMENT	01											
	14	**VTH**	HYSTERESIS SELECTION FOR H-SYNC NON-STANDARD		01	01									
	15	**VTR**	SENSITIVITY SELECTION FOR H-SYNC NON-STANDARD		01	01									
	16	**LDR**	SENSITIVITY SELECTION FOR FRAME-SYNC NON-STANDARD		02	01									
	17	**VAP**	GAIN ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								03	00	00	00	
	18	**VAI**	VANISHING ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								0C	00	00	00	
	19	**TST**	TEST BIT	00											
	1A	**YPF**	CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF								03	03	03	03	
	1B	**YPG**	GAIN ADJUSTMENT FOR Y-PEAKING BPF								08	08	08	08	
	1C	**VSE**	LINE COMB FILTER SETUP	0A											
	1D	**CCN**	C-SIGNAL SPLIT FILTER SWITCH	00											
	1E	**COS**	C-SIGNAL DELAY SWITCH AT NOISE REDUCTION	00											
	1F	**SDC**	DC DETECTION SENSITIVITY SWITCH	00											

SERVICE LIST ITEM

TVG Category	Functionality No.	Functionality Name	Function	Common	TV	Video	NR Mode: NRmode0	NR Mode: NRmode1	NR Mode: NRmode4	NR Mode: NRmode3	Picture Mode: Dynamic	Picture Mode: Standard	Picture Mode: Hi-Fine	Picture Mode: Personal	Device Name
3CM	20	**SDY**	DY DETECTION LOWER-LEVER SENSITIVITY SWITCH	01											UPD64082
	21	**D2G**	D2 GAIN SELECTION	04											
	22	**YHC**	Y-SIGNAL HIGHER-LEVEL CORING SELECTION	00							00	00	00	00	
	23	**YHG**	Y-SIGNAL HIGHER-LEVEL GAIN SWITCH	00							00	00	00	00	
	24	**SHT**	NON-STANDARD DETECTION & H/V COUNTER TEST BITS	00											
	25	**CLK**	CLOCK TEST BITS	08											
	26	**PLL**	PLL FILTER SETUP	0D											
	27	**KRF**	KILLER DETECTION REFERENCE ADJUSTMENT	03											
	28	**HSL**	H-SYNC SLICE LEVEL ADJUSTMENT	0C											
	29	**VSL**	V-SYNC SLICE LEVEL ADJUSTMENT	08											
	2A	**BPS**	INTERNAL BURST GATE START POSITION ADJUSTMENT	04											
	2B	**BPW**	INTERNAL BURST GATE WIDTH ADJUSTMENT	0A											
	2C	**ADC**	ADC CLOCK DELAY SELECTION	03											
	2D	**APD**	ADC POWER-DOWN SWITCH	01											
	2E	**NSD**	NON-STANDARD DETECTION TEST BIT	01											
	2F	**SPD**	MEMORY POWER-DOWN SWITCH	02											
	30	**CNT**	CNR TEST BIT	00											

TVG Category	Functionality No.	Functionality Name	Function	RF Picture Mode: NRmode0	RF Picture Mode: NRmode1	RF Picture Mode: NRmode2	RF Picture Mode: NRmode3	Video Picture Mode: Dynamic	Video Picture Mode: Standard	Video Picture Mode: Hi-Fine	Video Picture Mode: Personal	Device Name
2CM	00	**APA**	2D COMB APACON ON/OFF	00	00	00	00	01	00	00	00	CXA2069Q

TVG Category	Functionality No.	Functionality Name	Function	Common	Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur Off	Dynamic	Drama	Soft	Device Name
DSP	00	**DUL**	DIR UNLOCK DETECTION MODE	00									TC9446F
	01	**DIM**	DIGITAL INPUT MODE	03									
	02	TFM	TRUSURROUND FRONT MINUS		5A	5A							
	03	TFP	TRUSURROUND FRONT PLUS		12	12							
	04	TCE	TRUSURROUND CENTER		40	40							
	05	TS1	TRUSURROUND SURROUND #1		20	E0							
	06	TS2	TRUSURROUND SURROUND #2		20	20							
	07	TSP	TRUSURROUND SURROUND PLUS		68	68							
	08	TSM	TRUSURROUND SURROUND MINUS		68	68							
	09	LFE	LOW FREQUENCY EFFECT	5A									
	0A	BHL	BBE EFFECT 1 FOR BBE HIGH		33	33	33	28	40				
	0B	BHH	BBE EFFECT 2 FOR BBE HIGH		33	33	33	28	40				
	0C	BLL	BBE EFFECT 1 FOR BBE LOW		2B	2B	2B	24	33				
	0D	BLH	BBE EFFECT 2 FOR BBE LOW		2B	2B	2B	24	33				
	0E	DLR	DELAY SELECTION AT DSP RESET	07									
	0F	BBE	BBE SELECTION							01	03	03	

SERVICE LIST ITEM

TVG	Functionality		Function				Device
Category	No.	Name		Common	50	60	
TXT	00	**TXH**	TELETEXT HORIZONTAL POSITION	4B			SAA5261
	01	**TXV**	TELETEXT VERTICAL POSITION	0E			
OPM	00	**OSH**	OSD H POSITION	12			CXP750096 OPTION-MISC
	01	**FW1**	OSD ODD/EVEN FIELD WINDOW SETUP #1	00			
	02	**FW2**	OSD ODD/EVEN FILED WINDOW SETUP #2	03			
	03	**OHO**	OSD H POSITION OFFSET FOR INDEX	07			
	04	**IL1**	INDEX SUB-SCREEN OSD 1ST LINE VERTICAL POSITION		1F	1D	
	05	**IVO**	INDEX SUB-SCREEN OSD VERTICAL OFFSET		2F	22	
	06	**COM**	COMB OPERATION SELECTION	00			
	07	**APC**	APC SWITCH MUTE	01			
	08	**TSY**	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM	00			
	09	**MUT**	NO SIGNAL MUTE	01			
	0A	**AFM**	AUTO FM SWITCH	01			
	0B	**TVO**	V-ANGLE CORRECTION TO PICTURE ROTATION	03			
	0C	**DBL**	DISABLE BLUEBACK FUNCTION	01			
	0D	**SSO**	SPEED CH SEARCH SELECTION	01			
	0E	**TRP**	MPEG/JPEG NOISE REDUCTION FOR EACH INPUT	00			
	0F	**SCH**	CH SELECTION FOR SHIPPING CONDITION	07			
	10	**SCA**	CABLE/AIR SELECTION FOR SHIPPING CONDITION	01			
	11	**DMG**	DISABLE MENU-OPERATION GUIDE	00			
	12	**VSN**	ENABLE NOISE REDUCTION IN VIDEO MODE	00			
OPB	00	**OP1**	OPTIONAL BITS 1 (SEE THE SPECIFIED SHEET)	07			OPTION-BITS
	01	**OP2**	OPTIONAL BITS 2 (SEE THE SPECIFIED SHEET)	62			

Abbreviation:

ECO = Eco Mode
VC = V-Compressed Mode
NC = Non-Compressed Mode
Sur = Surround
VDD = Virtual Dolby Digital
VDP = Virtual Dolby Prologic
TRS = Tru Surround
SIM = Simulated

NOTE

- shaded items are fixed data.
- no data
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

OPTION NOTE

COM Comb Operation Selection
00 = automatic operation (depends on color system status),
01 = no comb operation,
02 = forced 2D-comb operation,
03 = forced 3D-comb operation

TSY TV System Selection for Auto TV System
00 = B/G, 01 = I, 10 = D/K, 11 = M

SSO Speed CH Search Selection
00 = normal, 01 = 4 times, 10 = 6 times, 11 = 8 times

TRP MPEG/JPEG Noise Reduction

Input	–	–	TV	Video 1	Video 2	Video 3	Video 4	DVD

OP1 Items

Item	TOP	NICAM	HDEV	Reserved	–	DVD Input	AV Input	
KV-ES29K90	0	0	0	0	0	1	1	1

AV Input 00 = no AV Input, 01 = 1 AV Input, 10 = 3 AV Input, 11 = 4 AV Input

OP2 Items

Item	C-Text	Korea Stereo	Korea Mode	A-TV SYS	USST	SSV - Model	OSD Language	
KV-ES29K90	0	1	1	0	0	0	1	0

C-Text — Text Decoder 0 = Original (Siemens), 1 = Chinese (Philips)
Korean Stereo* — Korean Stereo 0 = Disabled, 1 = Enabled
Video NTSC 3.58* — Video Color System 0 = Multi System, 1 = Single System (NTSC 3.58)
A-TV sys — Auto TV System in Auto Program 0 = Disabled, 1 = Enabled
US ST* — USA Stereo 0 = Disabled, 1 = Enabled
SSV Model — SSV = Production Model 0 = Original, 1 = Disable PIP/ TWIN/ Digital-IN
OSD Language — 00 = English only, 01 = English & Chinese,
10 = English & Arabic/ Korean* 11 = English, Chinese & Arabic/ Korean*

5-3. PICTURE QUALITY ADJUSTMENTS

-H-TRAPIZIUM ADJUSTMENT

1. Input a cross hatch/dot signal.
2. Adjust DAC 4 HTR to make H-Trapizoid distortion best.

SUB CONTRAST, SUB HUE, SUB COLOR

Adjustment condition

SAJ 00 PIC 3F
06 DYC 0
0E CLO 6
10 HUO 7
13 PIO 0

JGL 04 BBT 0
05 LML 3

PICTURE QUALITY : HI-FINE
ECO MODE : OFF
WIDE MODE : OFF
DRC-MF : DRC1050

INPUT SIGNAL

Video Color Bar (White and Color 75%)
RF Color Bar (White and Color 75%)

MEASUREMENT POINT

VR ; R100 (the pin 6 of CN1100 at A board)
VB ; B100 (the pin 7 of CN1100 at A board)

CAUTION
After the above Adjustment, these adjustment parameters must be recovered to the original condition.

Original condition

SAJ 00 PIC 28 HI-FINE
SAJ 06 DYC 0 HI-FINE

	50 TV	50 VIDEO	60 TV	60 VIDEO
OE CLO	9	8	9	6
10 HUO	8	8	9	7

13 PIO TWIN = 3
JGL 04 BBT 3
05 LML 0

1. NTSC VIDEO INPUT

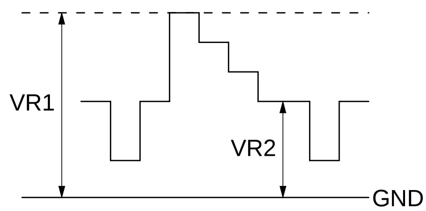
Input signal ; NTSC color bar, 75% to Video 1.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
02 COL 0
JGL 01 RGB 4
SAJ 13 PIO 0

Adjusting parameter:

LEFT ; YCT 08 YOL
RIGHT ; SYC 08 YOL



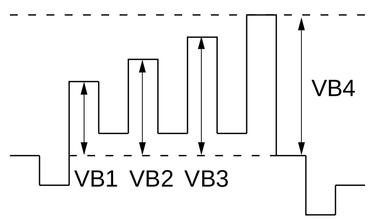
VR1 - VR2 = 1.85 ± 0.07 (Vp-p)

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
JGL 01 RGB 7
SAJ 10 HUO 7

Adjusting parameter:

LEFT ; YCT 0A COL
YCT 00 TNT
RIGHT ; SYC 0A COL
SYC 00 TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

2. NTSC RF INPUT

Input signal ; NTSC RF color bar, 75%.
[TWIN] mode, [Service] mode.

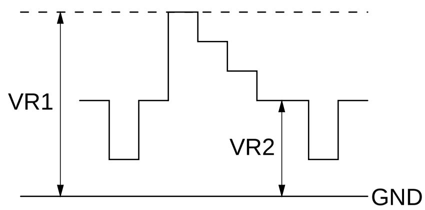
(i) SUB CONTRAST

Condition :

SAJ	00	PIC	3F
	02	COL	0
JGL	01	RGB	4

Adjusting parameter:

LEFT	;	YCT	04	SCT
RIGHT	;	SYC	04	SCT



VR1 - VR2 = 1.85 ± 0.07 (Vp-p)

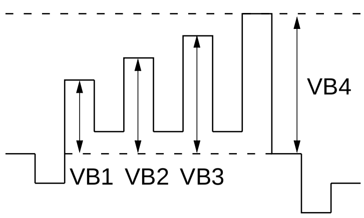
(ii) SUB HUE/SUB COL

Condition :

SAJ	02	COL	1F
JGL	01	RGB	7
SAJ	10	HUO	7

Adjusting parameter:

LEFT	;	YCT	03	SCL
		YCT	00	TNT
RIGHT	;	SYC	03	SCL
		SYC	00	TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

3. PAL RF INPUT (Not applicable to this model)

Input signal ; PAL RF color bar, 75%.
[TWIN] mode, [Service] mode.

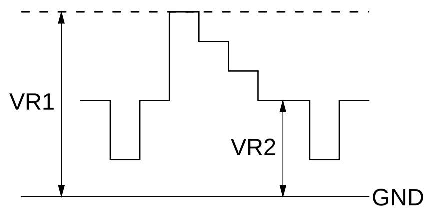
(i) SUB CONTRAST

Condition :

SAJ	00	PIC	3F
SAJ	02	COL	0
JGL	01	RGB	4

Adjusting parameter:

LEFT	;	YCT	04	SCT
RIGHT	;	SYC	04	SCT



VR1 - VR2 = 1.85 ± 0.07 (Vp-p)

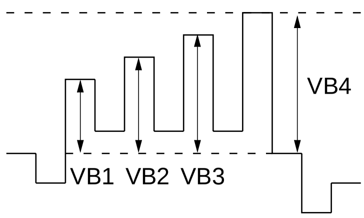
(ii) SUB HUE/SUB COL

Condition :

SAJ	02	COL	1F
JGL	01	RGB	7

Adjusting parameter:

LEFT	;	YCT	03	SCL
RIGHT	;	SYC	03	SCL



VB2 = VB3 = VB4 = ± 70 mV

5-4. DEFLECTION ADJUSTMENTS

FOR DRC 1050

1. Set to Service Mode.
2. Input a Pal cross hatch/dot signal.
3. Set the following condition.
   Picture Mode to [DYNAMIC], Picture Rotation to [+/– 0] and Eco Mode to OFF.
4. Set to DRC 1050 mode.
5. Using the [1] and [4] buttons select category GEO (Service Mode).
6. Select and adjust the following items to obtain optimum image.
   Raise/lower the data with the [3] and [6] buttons.

1	00	VSZ	V SIZE
2	04	HSZ	H SIZE
3	01	VPS	V POSITION
4	05	HPS	H POSITION
5	03	SCO	S CORRECTION
6	02	VLN	V LINEARITY
7	0B	BOW	AFC BOW
8	06	PAP	PIN AMP
9	07	UPN	UPPER CORNER PIN
10	08	LPN	LOWER CORNER PIN
11	09	TRZ	TRAPEZIUM

7. Using the [1] and [4] buttons select category DAC (Service Mode).
8. Select and ad List the following items to obtain optimum image.
   Raise/lower the data with the [3] and [6] buttons.

1	01	HLN	H LINEARITY
2	00	HCT	H CENTER

9. Select "GEO 04 HSZ" with the [1] and [4] buttons.
10. Confirm the H Size condition. If necessary, adjust the H SIZE to get a best condition.
11. Write into the memory by pressing [MUTING] then [0].

FOR PROGRESSIVE MODE

12. Set to PROGRESIVE mode.
13. Repeat Step 5, Step 6 and Step 7.
14. Write "DAC 00 HCT DRC 100 Mode" as "DAC 00 HCT DRC 1250 Mode".
    Write "DAC 01 HLN DRC 100 Mode" as "DAC 01 HLN DRC 1250 Mode".

FOR PIP MODE

15. Set to PIP mode.
16. Repeat Step 5 and Step 6.
17. Write into the memory by pressing [MUTING] then [0].

FOR TWIN MODE

18. Set to TWIN Mode.
19. Using the [1] and [4] buttons select category GEO (Service Mode).
20. Select and adjust the following items to obtain optimum image.
    Raise/lower the data with the [3] and [6] buttons.

1	01	VPS	V POSITION
2	05	HPS	H POSITION
3	06	PAP	PIN AMP
4	09	TRZ	TRAPEZIUM

21. Write into the memory by pressing [MUTING] then [0].

FOR INDEX M0DE

22. Set to Index Mode.
23. Repeat Step 5 and Step 6.
24. Write into the memory by pressing [MUTING] then [0].

FOR WIDE MODE

25. Set to WIDE Mode.
26. Using the [1] and [4] buttons select category GEO (Service Mode).
27. Select and adjust the following items to obtain optimum image.
    Raise/lower the data with the [3] and [6] buttons.

1	00	VSZ	V SIZE
2	01	VPS	V POSITION
3	05	HPS	H POSITION
4	06	PAP	PIN AMP
5	09	TRZ	TRAPEZIUM

28. Input a NTSC cross hatch/dot signal and repeat all above steps.

5-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

When replacing IC003 and IC004 (MEMORY), be sure to change IC001 (µ-COM) to the following at the same time.

MODEL	IC001 (µ-CON)
KV-ES29K90	CXP750096-019Q

1. Enter to Service Mode.

2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.

3. Call each item number and check if the respective screen shows the normal picture.
   In cases where items are not well adjusted, rectify the items with fine adjustment.
   Write the data per each item number ([MUTING] +[0]).

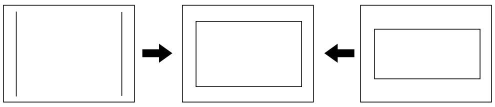
4. Select item numbers "OPB0" (OP1), "OPB1" (OP2) and respectively set the bit per model with command buttons [3] and [6].

5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
   (This will also cancel Service Mode.)

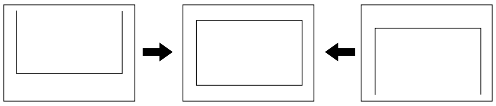
5-6. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

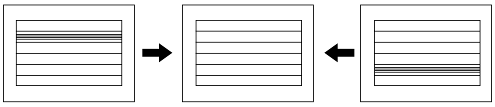
GEO 0 VSZ (V SIZE)



GEO 1 VPS (V POSITION)



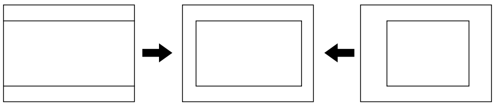
GEO 2 VLN (V LINEARITY)



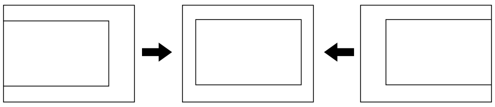
GEO 3 SCO (VERTICAL S-Correction)



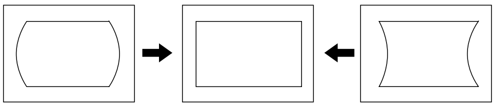
GEO 4 HSZ (H SIZE)



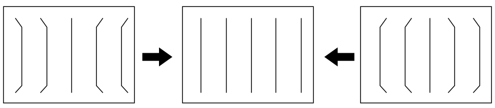
GEO 5 HPS (H POSITION)



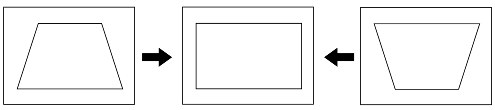
GEO 6 PAP (PIN AMP)



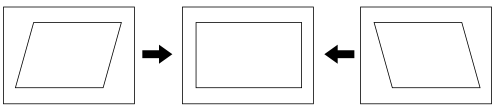
GEO 07 UPN (UPPER CORNER PIN)
GEO 08 LPN (LOWER CORNER PIN)



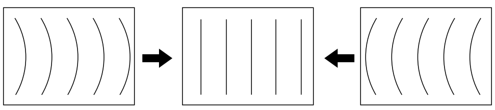
GEO 9 TRZ (TRAPEZIUM)



GEO 0A AGL (AFC.ANGLE)

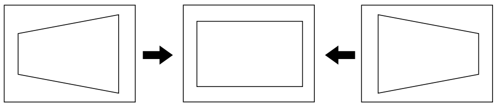


GEO 0B BOW (AFC.BOW)



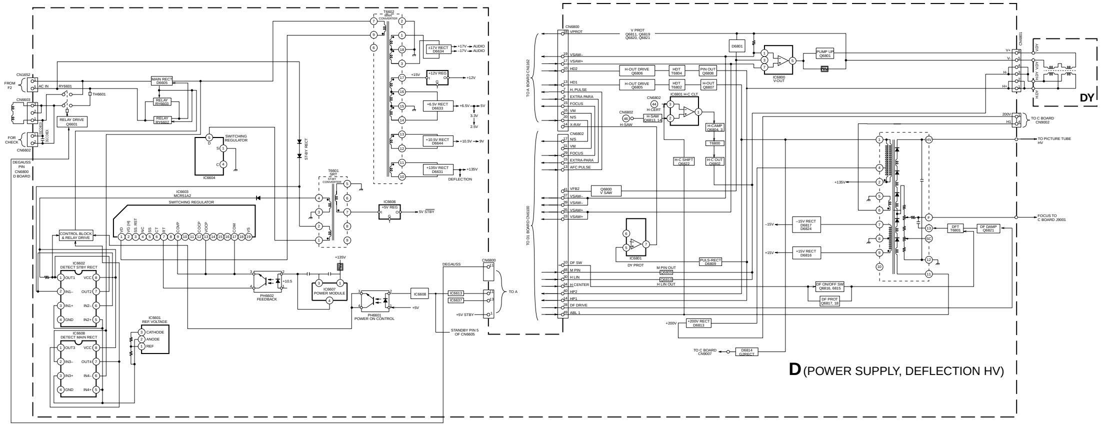
PICTURE DISTORTION ADJUSTMENT (2)

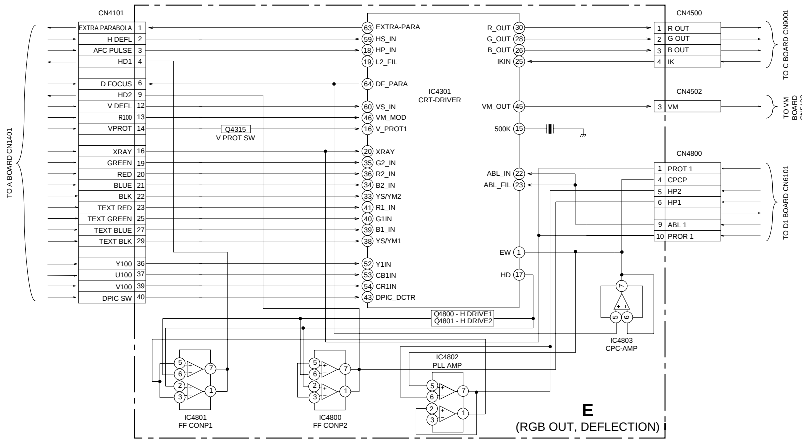
H-TRAPEZOID (DAC 4 HTR)

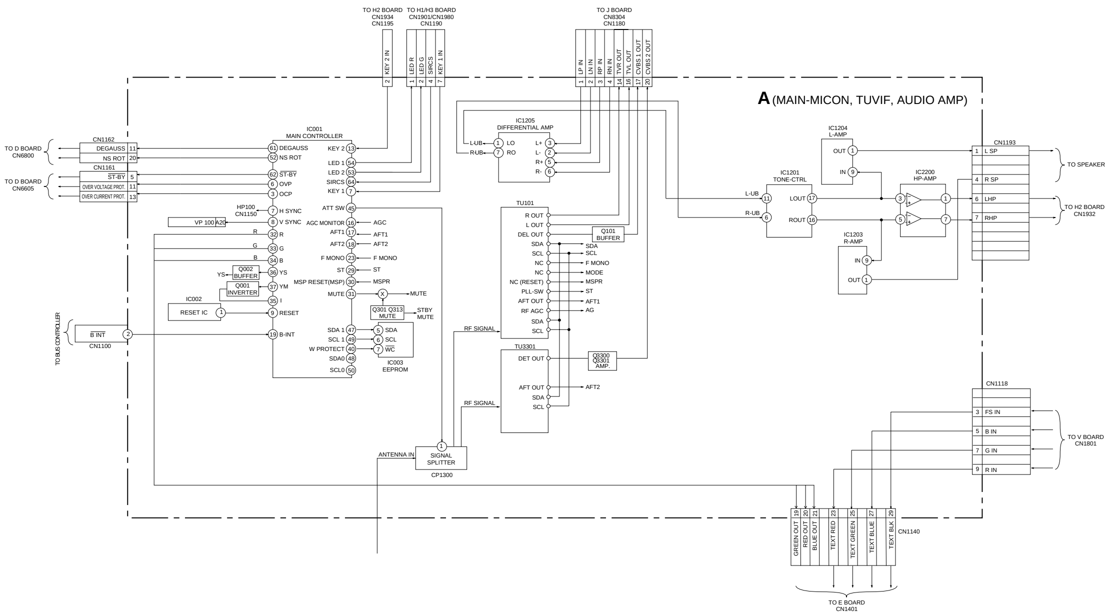


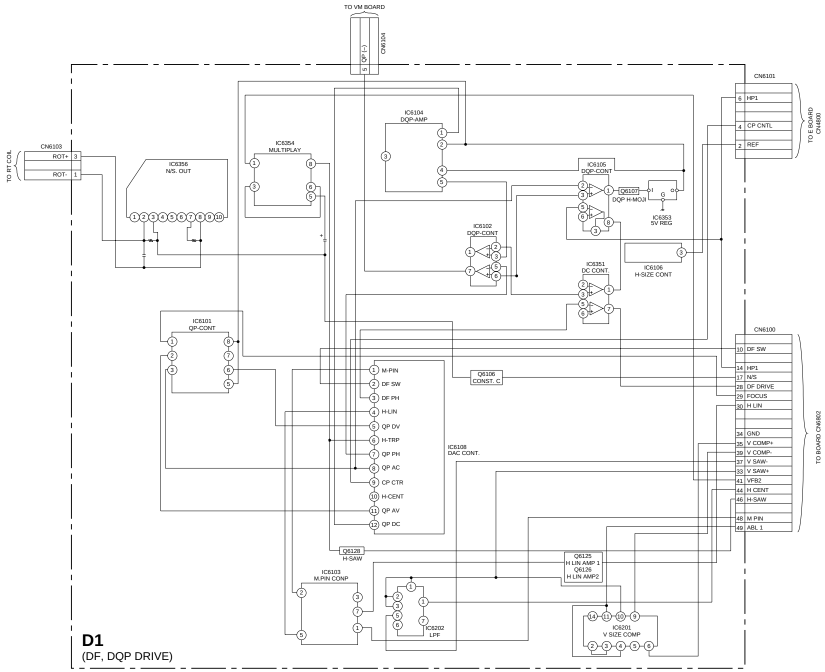
SECTION 6
DIAGRAMS

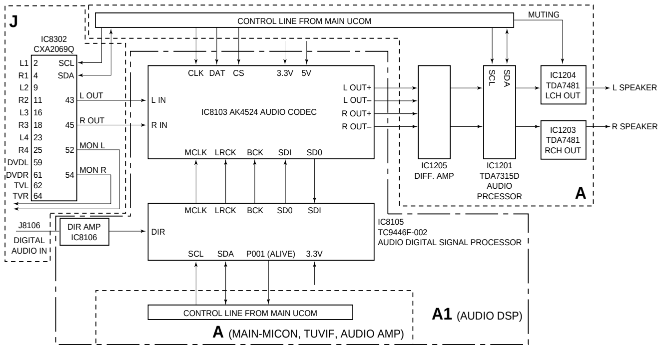
6-1. BLOCK DIAGRAM



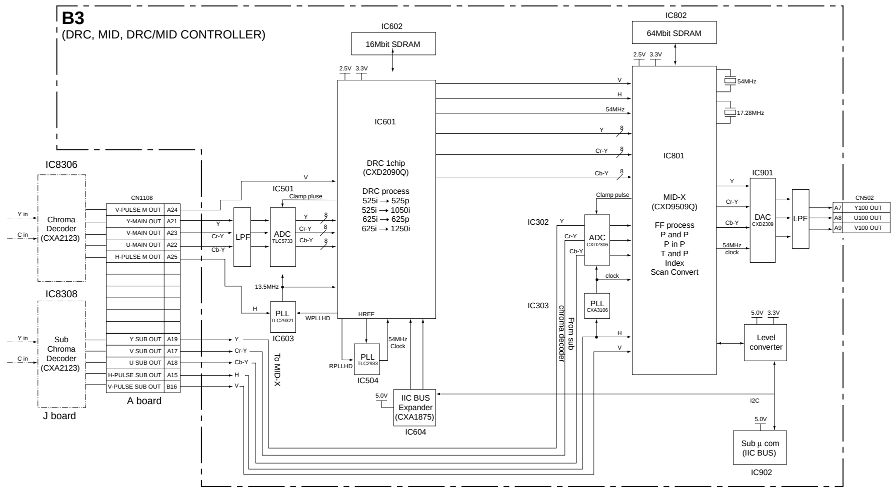



A (MAIN-MICON, TUVIF, AUDIO AMP)

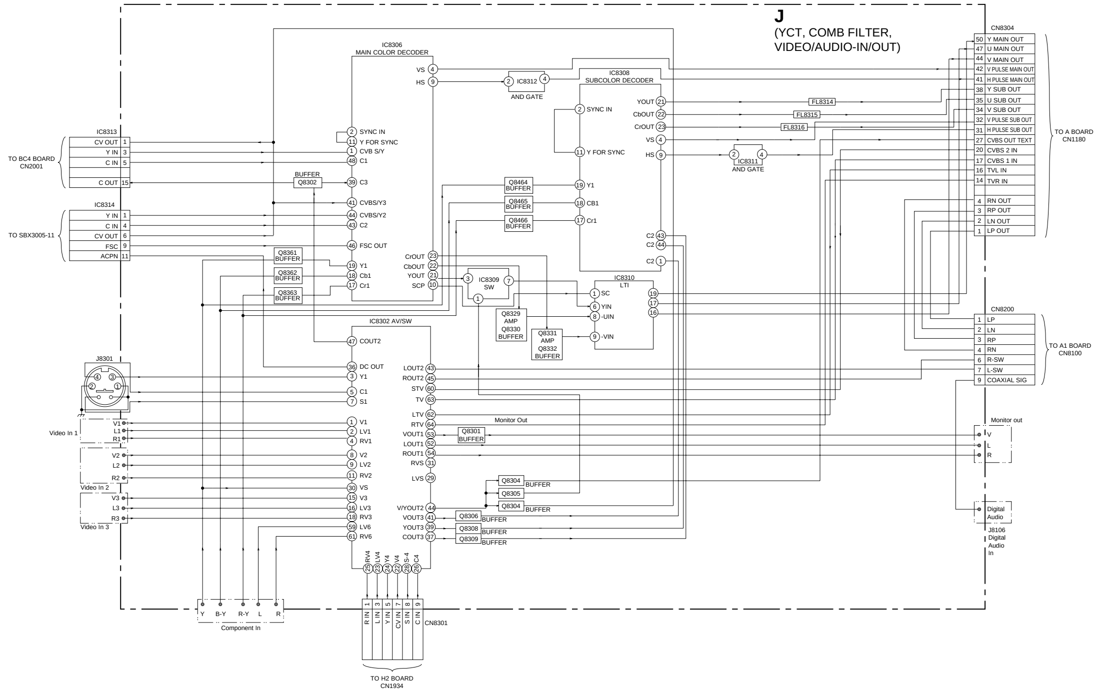

D1
(DF, DQP DRIVE)

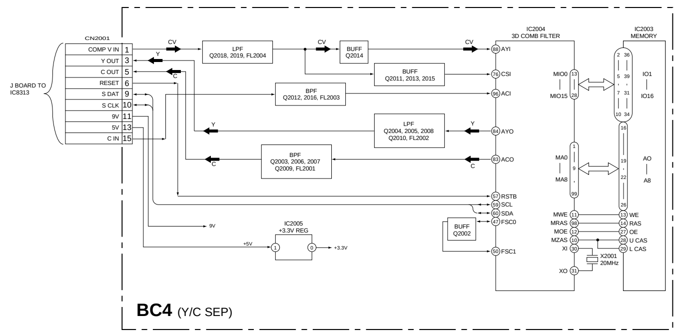


J
IC8302
CXA2069Q
L1 2
R1 4
L2 9
R2 11
L3 16
R3 18
L4 23
R4 25
DVDL 59
DVDR 61
TVL 62
TVR 64
SCL
SDA
43
L OUT
45
R OUT
52
MON L
54
MON R
CONTROL LINE FROM MAIN UCOM
MUTING
CLK DAT CS 3.3V 5V
L IN
R IN
IC8103 AK4524 AUDIO CODEC
L OUT+
L OUT–
R OUT+
R OUT–
MCLK LRCK BCK SDI SD0
SCL
SDA
IC1204
TDA7481
LCH OUT
IC1203
TDA7481
RCH OUT
L SPEAKER
R SPEAKER
IC1205
DIFF. AMP
IC1201
TDA7315D
AUDIO
PRCESSOR
A
J8106
DIGITAL
AUDIO IN
DIR AMP
IC8106
DIR
MCLK LRCK BCK SD0 SDI
IC8105
TC9446F-002
AUDIO DIGITAL SIGNAL PROCESSOR
SCL SDA P001 (ALIVE) 3.3V
CONTROL LINE FROM MAIN UCOM
A1 (AUDIO DSP)
A (MAIN-MICON, TUVIF, AUDIO AMP)

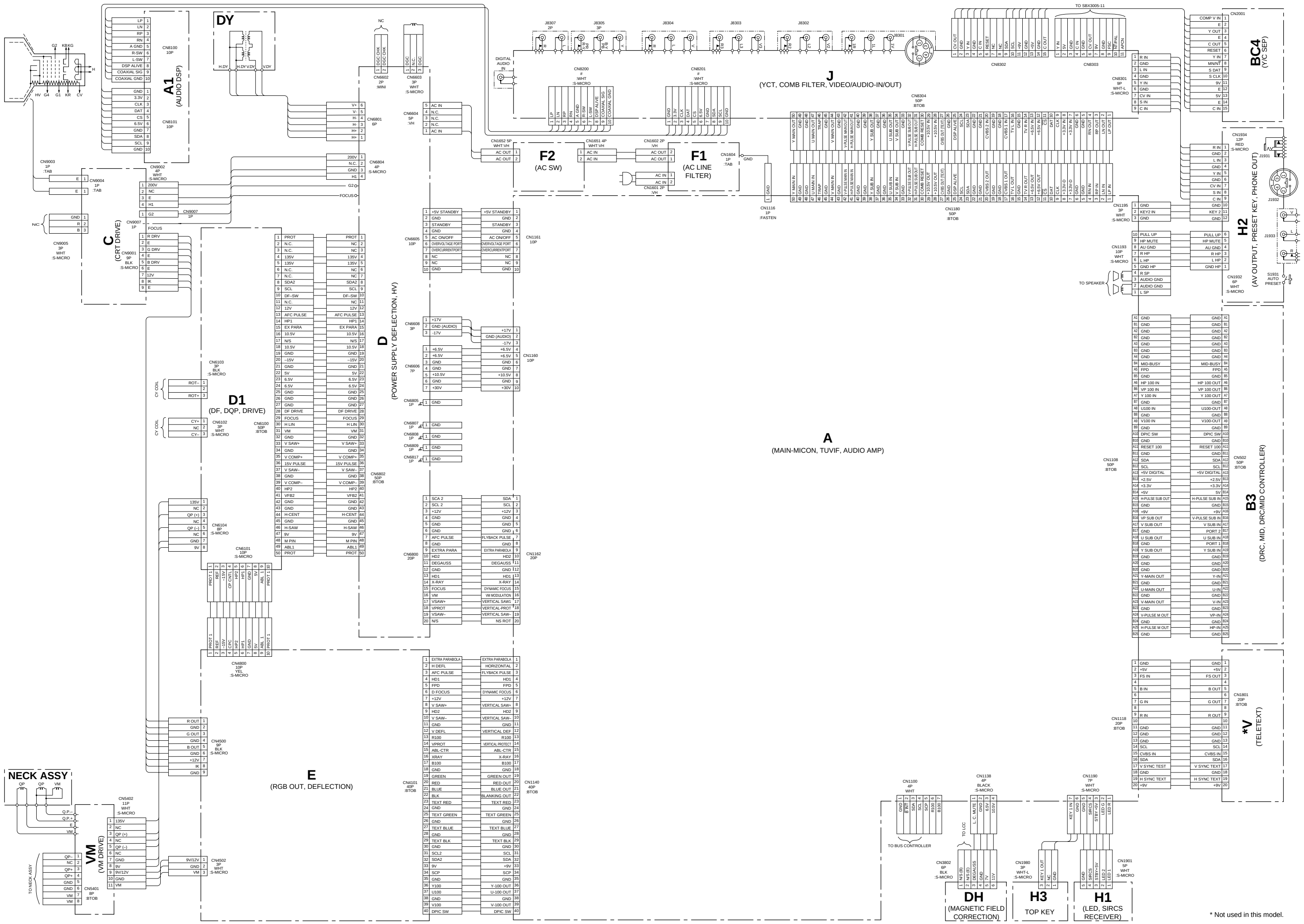


B3
(DRC, MID, DRC/MID CONTROLLER)
IC602
16Mbit SDRAM
IC802
64Mbit SDRAM
2.5V 3.3V
IC601
DRC 1chip
(CXD2090Q)
DRC process
525i → 525p
525i → 1050i
625i → 625p
625i → 1250i
IC801
MID-X
(CXD9509Q)
FF process
P and P
P in P
T and P
Index
Scan Convert
54MHz
17.28MHz
IC8306
Chroma
Decoder
(CXA2123)
IC8308
Sub
Chroma
Decoder
(CXA2123)
J board
Y in
C in
CN1108
V-PULSE M OUT A24
Y-MAIN OUT A21
V-MAIN OUT A23
U-MAIN OUT A22
H-PULSE M OUT A25
Y SUB OUT A19
V SUB OUT A17
U SUB OUT A18
H-PULSE SUB OUT A15
V-PULSE SUB OUT B16
A board
IC501
Clamp pluse
LPF
ADC
TLC5733
Y
Cr-Y
Cb-Y
13.5MHz
PLL
TLC2932I
IC603
WPLLHD
HREF
PLL
TLC2933
IC504
RPLLHD
54MHz
Clock
To MID-X
IIC BUS
Expander
(CXA1875)
IC604
5.0V
IC302
IC303
Clamp pulse
ADC
CXD2306
PLL
CXA3106
clock
From sub
chroma decoder
IC901
DAC
CXD2308
LPF
CN502
A7 Y100 OUT
A8 U100 OUT
A9 V100 OUT
Level
converter
I2C
Sub µ com
(IIC BUS)
IC902


J
(YCT, COMB FILTER,
VIDEO/AUDIO-IN/OUT)
IC8306 MAIN COLOR DECODER
IC8308 SUBCOLOR DECODER
IC8302 AV/SW
IC8310 LTI
IC8309 SW
IC8312 AND GATE
IC8311 AND GATE
IC8313
IC8314
CN8304
CN8200
CN8301
J8301
J8106 Digital Audio In
TO BC4 BOARD CN2001
TO SBX3005-11
TO A BOARD CN1180
TO A1 BOARD CN8100
TO H2 BOARD CN1934
Component In
Video In 1
Video In 2
Video In 3
Monitor Out
Monitor out

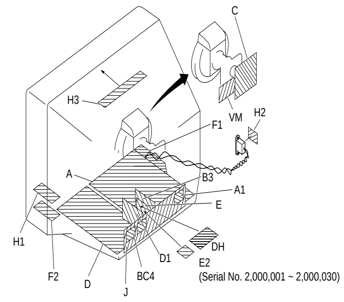

BC4 (Y/C SEP)
CN2001
J BOARD TO IC8313
IC2004 3D COMB FILTER
IC2003 MEMORY
IC2005 +3.3V REG
LPF Q2018, 2019, FL2004
BUFF Q2014
BUFF Q2011, 2013, 2015
BPF Q2012, 2016, FL2003
LPF Q2004, 2005, 2008 Q2010, FL2002
BPF Q2003, 2006, 2007 Q2009, FL2001
BUFF Q2002
X2001 20MHz

6-2. FRAME SCHEMATIC DIAGRAMS



* Not used in this model.

6-3. CIRCUIT BOARDS LOCATION



6-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance which does not have rating electrical power is as follows.

Pitch: 5 mm Rating electrical power 1/4W (CHIP: 1/10W)

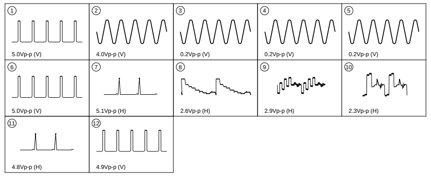
- (FW symbol) : nonflammable resistor.
- Δ : internal component.
- ▭ : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- **Readings are taken with a color-bar signal input.**
  no mark : PAL
  ( ) : SECAM
  [ ] : NTSC 3.58
  « » : NTSC 4.43
- **Readings are taken with a 10 MΩ digital multimeter.**
- **Voltage are dc with respect to ground unless otherwise noted.**
- **Voltage variations may be noted due to normal production tolerances.**
- **All voltages are in V.**
- *** : Cannot be measured.**
- **Circled numbers are waveform references.**
- **▪ ▪ ▪ ▪ : B + bus.**
- **▬▬ : B – bus.**
- **⇨ : signal path.**

Reference information

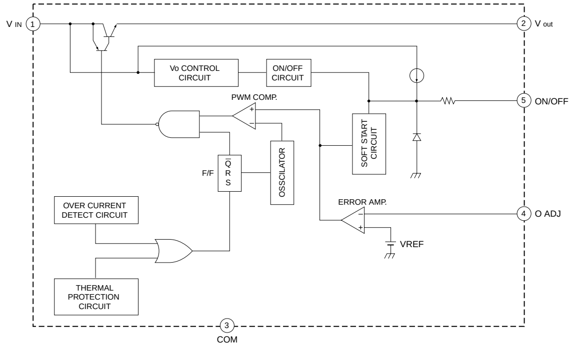
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

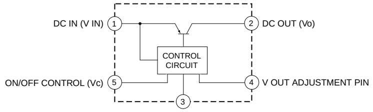
A BOARD WAVEFORMS



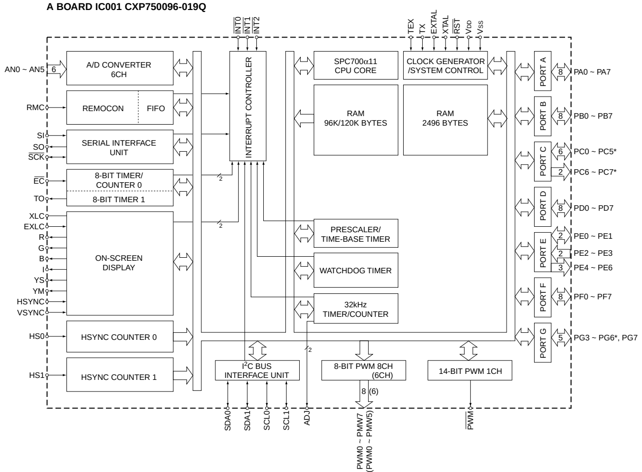
A BOARD IC2603 PQICG2032FZ



A BOARD IC2604 PQ5EV3



A BOARD IC001 CXP750096-019Q



A BOARD A (Component Side)

IC		TRANSISTOR	
IC001	B-9	Q1201	D-12
IC002	C-8	Q1206	D-13
IC003	A-8	Q1209	D-13
IC1201	E-13	Q1210	D-13
IC1203	F-13	Q1205	E-13
IC1204	B-13	**DIODE**	
IC1205	F-12	D1208	E-13
IC2200	E-12	D1209	D-11
IC2600	E-8		
IC2601	G-10		
IC2603	F-9		
IC2604	F-8		

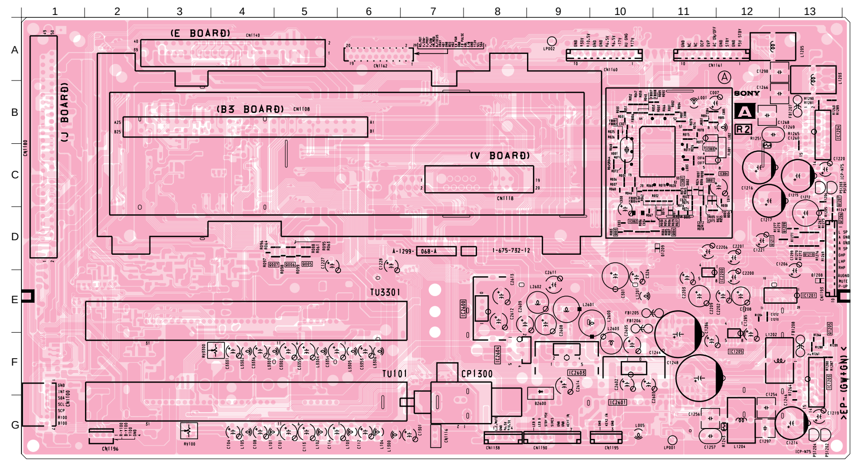
A BOARD B (Conductor Side)

IC		DIODE	
IC100	G-10	D300	A-9
IC901	I-13	D301	B-9
IC1203	G-1	D302	B-6
IC1204	B-1	D1205	F-1
IC2600	E-7	D2200	E-3
IC2601	F-4	D2201	D-3
IC2603	F-5		
IC2604	F-6		
TRANSISTOR			
Q101	G-11		
Q301	D-4		
Q313	D-4		
Q902	I-13		
Q2200	D-3		
Q2201	E-4		
Q3300	F-11		

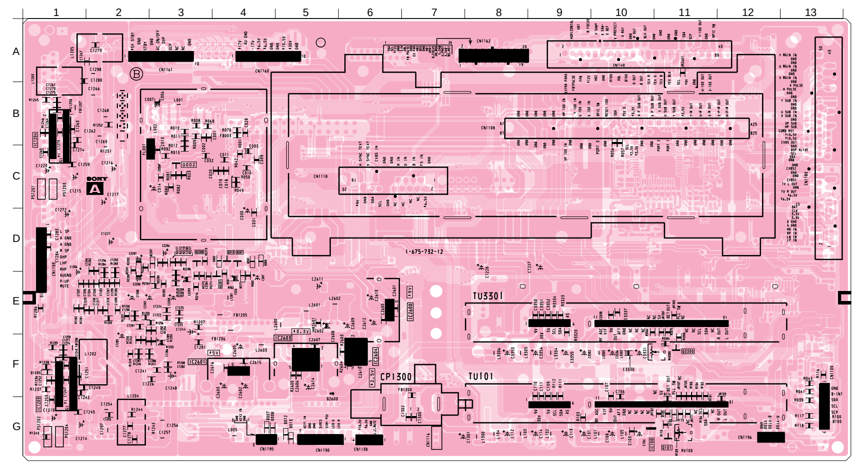
PRINTED WIRING BOARDS

A [MAIN-MICON, TUVIF, AUDIO AMP]

– A Board (Component Side) –

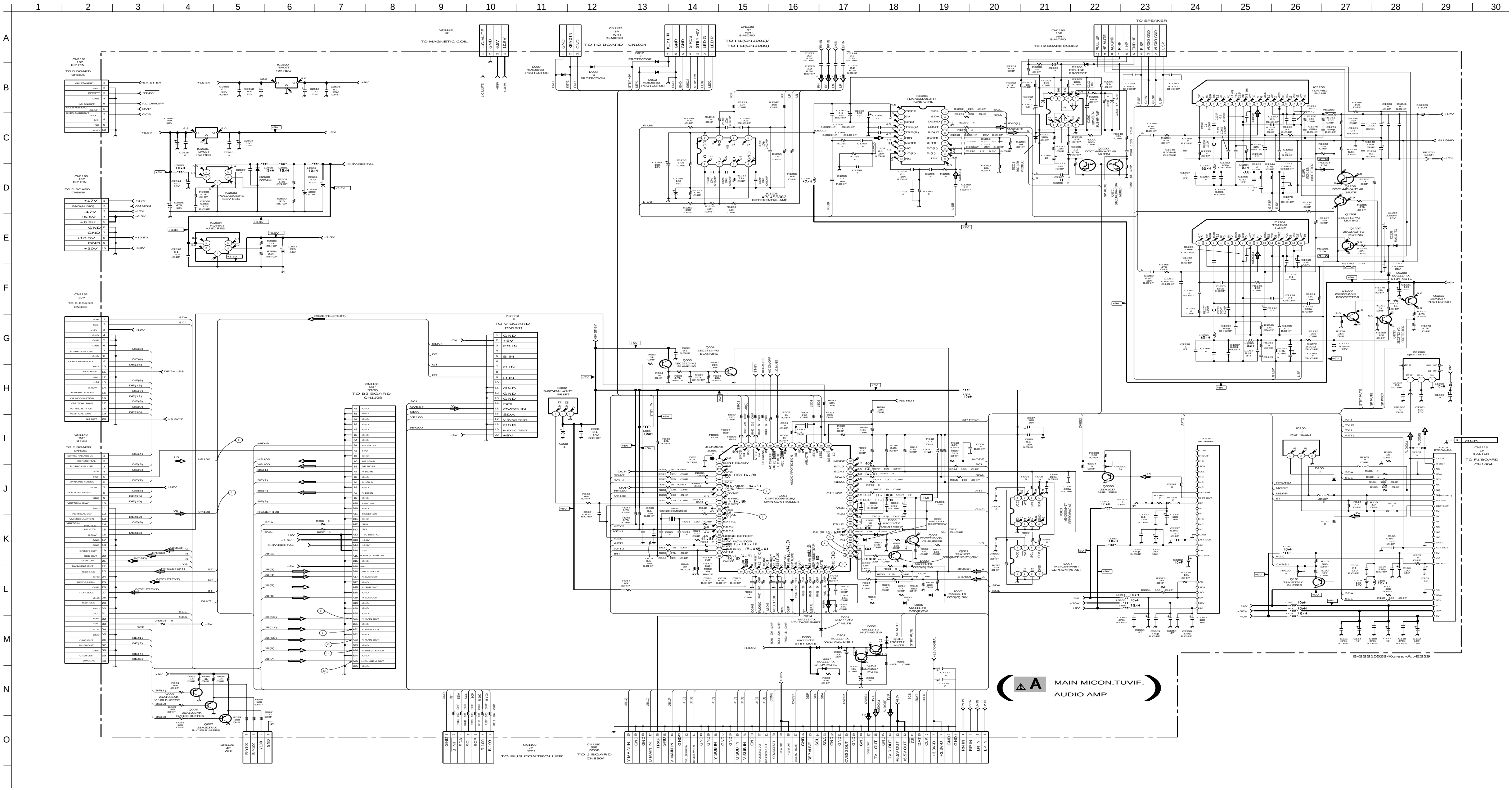


– A Board (Conductor Side) –

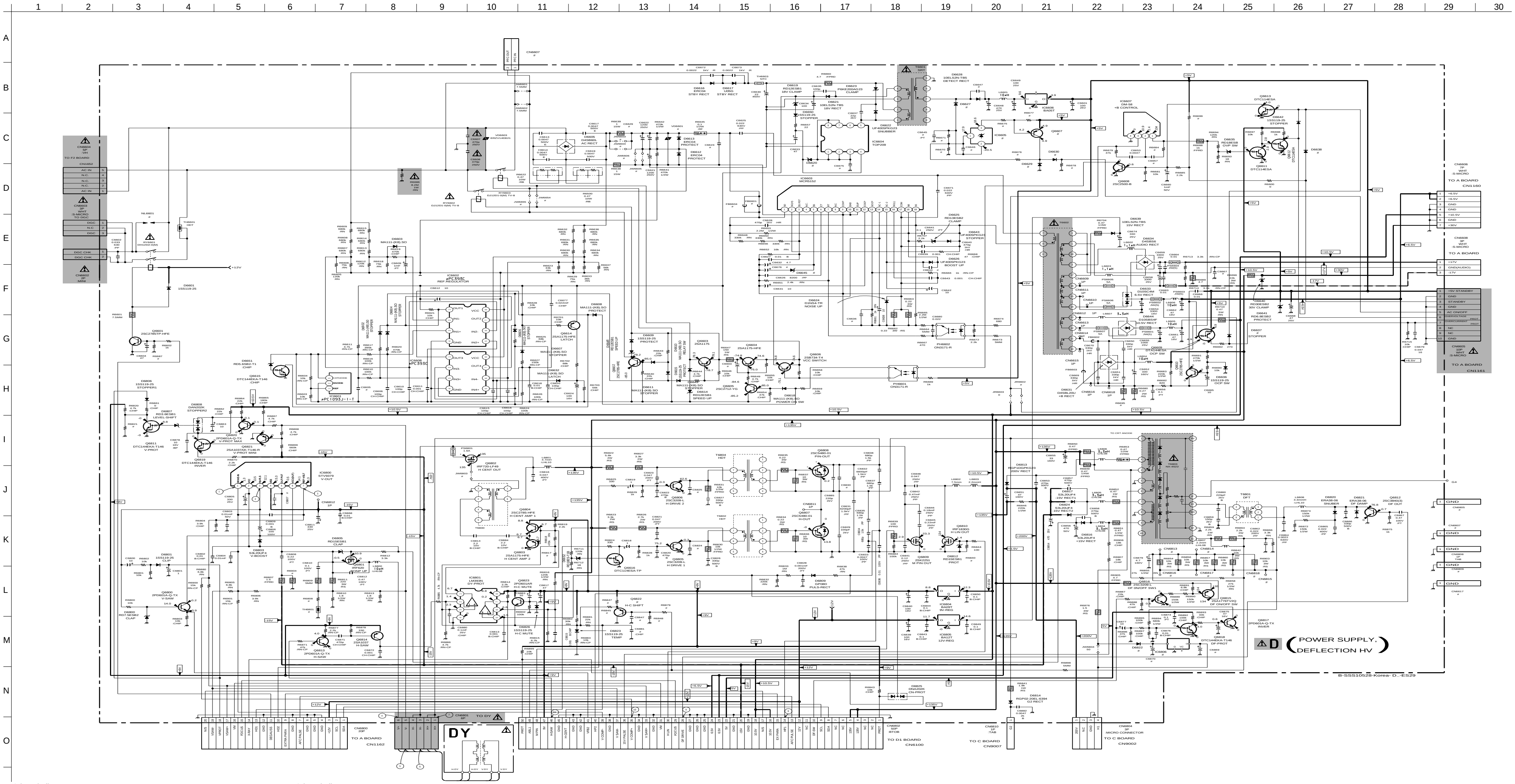


- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

(1) Schematic Diagram of A Board



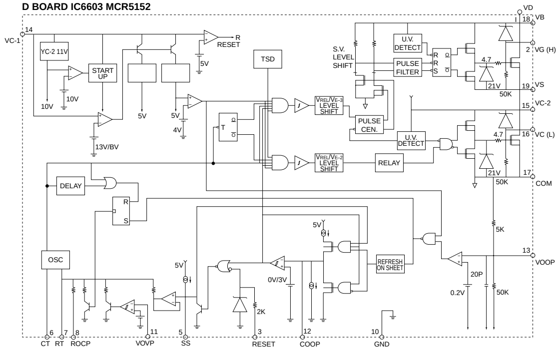
(2) Schematic Diagram of D Board



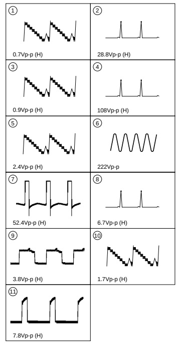
Schematic diagram ← A board

Schematic diagram D board →

D BOARD IC6603 MCR5152



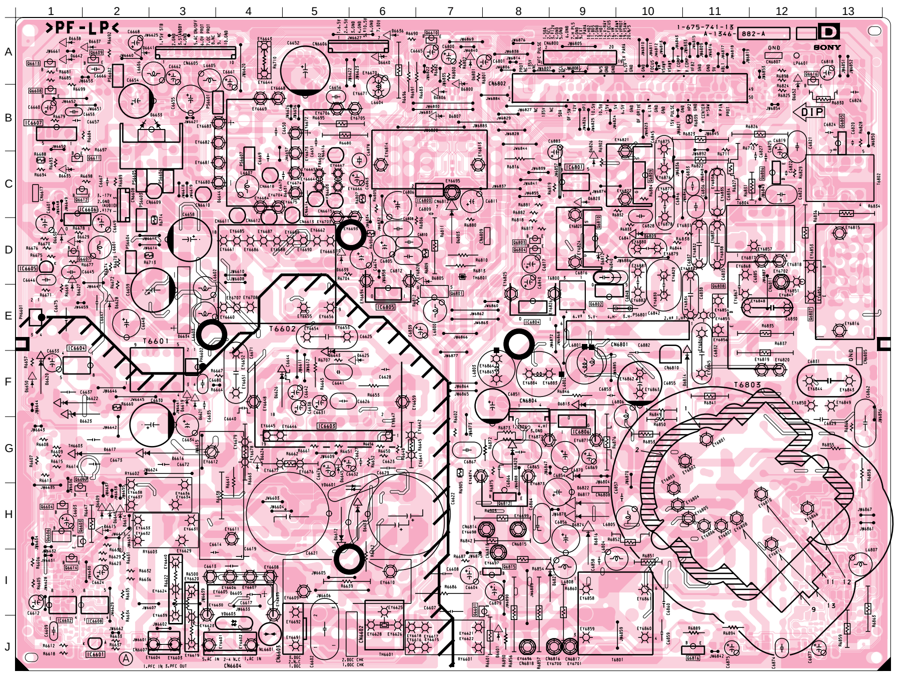
D BOARD WAVEFORMS



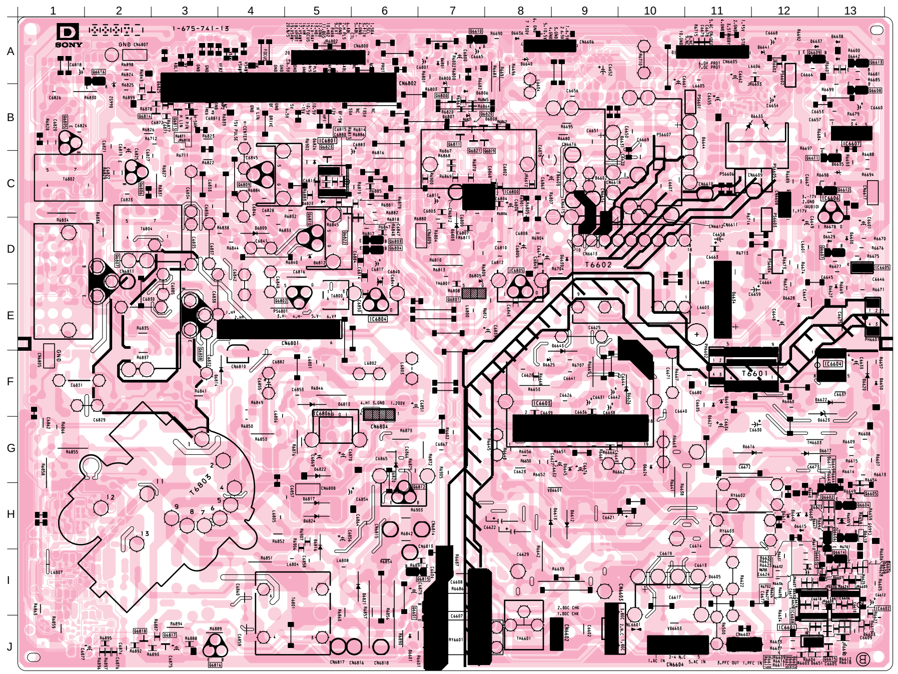
PRINTED WIRING BOARDS

D [POWER SUPPLY, DEFLECTION HV]

– D Board (Component Side) –



– D Board (Conductor Side) –



- ▒ :Pattern from the side which enables seeing.
- ▒ :Pattern from the rear side.

D BOARD (Component Side)

IC	
IC6601	J-2
IC6602	J-2
IC6603	G-5
IC6604	E-1
IC6605	D-1
IC6606	C-1
IC6607	B-1
IC6800	C-7
IC6801	C-9
IC6804	E-8
IC6805	E-6
IC6806	G-9

TRANSISTOR	
Q6601	1-8
Q6602	G-2
Q6603	H-2
Q6604	H-1
Q6606	H-1
Q6607	D-2
Q6608	B-1
Q6609	A-2
Q6610	A-7
Q6611	C-2
Q6612	C-1
Q6613	A-1
Q6801	E-7
Q6802	E-9
Q6803	D-8
Q6804	D-8

DIODE	
D6601	J-8
D6605	I-4
D6609	H-2
D6612	H-5
D6613	H-6
D6614	H-2
D6615	H-2
D6616	G-3
D6617	G-2
D6619	F-3
D6620	F-1
D6621	F-3
D6622	F-2
D6623	G-2
D6624	G-4
D6625	F-6
D6626	F-4
D6627	E-1
D6628	E-2
D6629	D-2
D6630	D-1
D6631	C-5
D6633	B-3
D6634	E-3
D6635	C-1
D6636	A-6
D6637	A-2
D6638	A-1
D6639	D-5
D6640	A-6
D6641	A-3
D6642	A-1
D6643	F-5
D6644	C-4
D6645	G-5
D6648	H-2
D6650	F-1
D6800	B-7
D6801	A-7
D6803	D-7
D6805	E-7
D6806	B-7
D6807	B-7
D6809	D-10
D6812	D-9
D6813	F-9
D6814	F-11
D6816	I-9
D6817	H-9
D6820	H-8
D6821	I-9
D6822	G-9
D6823	C-9
D6824	H-10
D6826	C-9
Q6805	B-12
Q6806	C-12
Q6807	B-12
Q6808	E-11
Q6809	C-10
Q6810	D-10
Q6812	H-8
Q6814	I-1
Q6815	I-8
Q6816	I-11

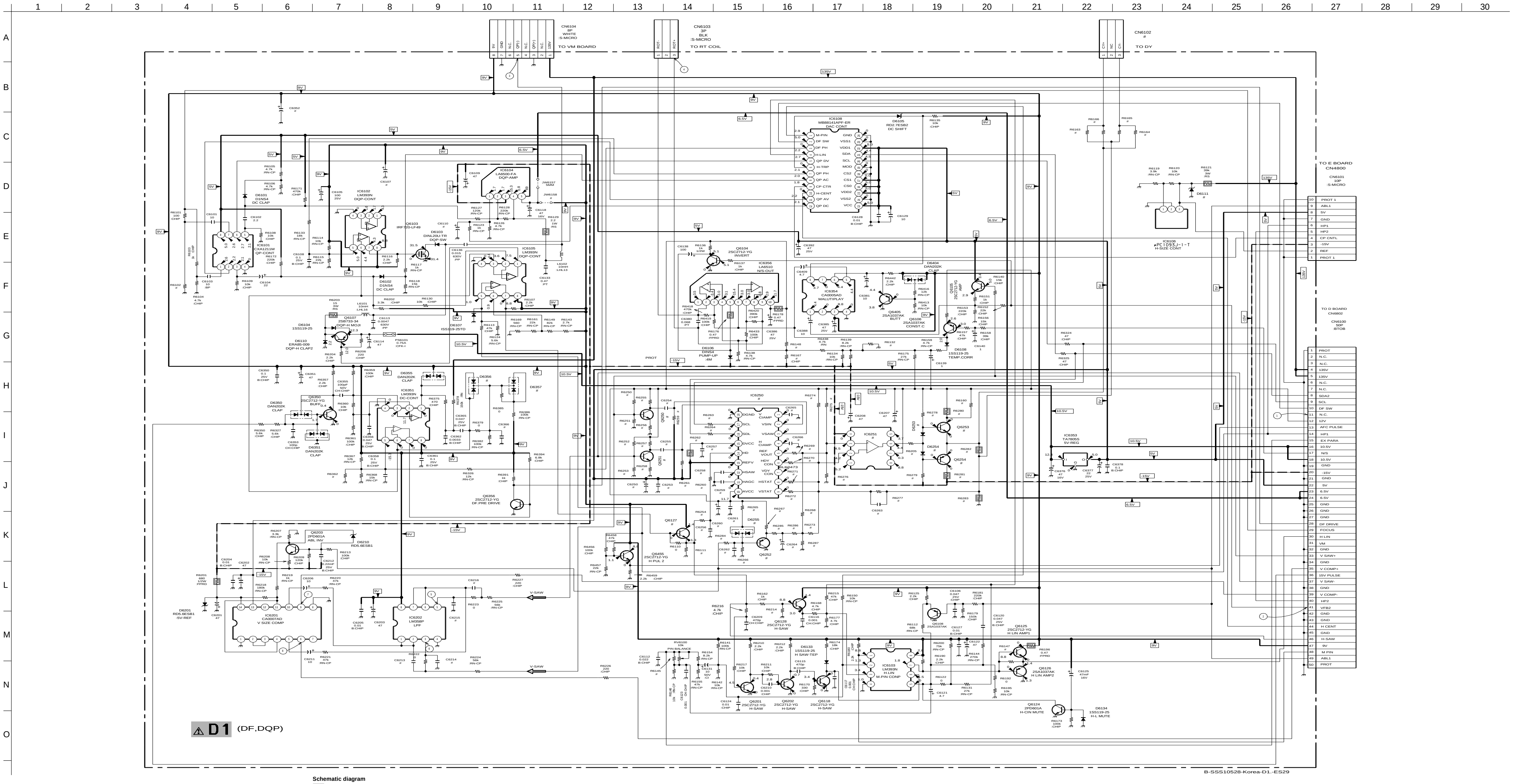
D BOARD (Conductor Side)

IC	
IC6601	J-12
IC6602	I-13
IC6603	F-8
IC6604	F-13
IC6605	D-13
IC6606	C-13
IC6607	B-13
IC6800	C-8
IC6801	B-5
IC6804	E-6
IC6805	D-8
IC6806	F-5

TRANSISTOR	
Q6601	J-6
Q6602	G-12
Q6603	H-13
Q6604	H-13
Q6605	H-13
Q6606	H-13
Q6607	D-13
Q6608	B-13
Q6611	C-12
Q6612	C-13
Q6614	I-13
Q6800	B-7
Q6801	D-7
Q6802	E-4
Q6803	D-6
Q6804	D-6
Q6806	C-2
Q6807	D-2
Q6808	E-3
Q6809	C-4
Q6810	D-5
Q6811	C-7
Q6812	H-6
Q6815	I-7
Q6816	J-3
Q6817	J-3
Q6818	J-3
Q6819	C-8
Q6820	B-7
Q6821	C-7
Q6822	D-5
Q6825	C-5

DIODE	
D6601	J-6
D6602	J-13
D6603	J-13
D6604	J-12
D6605	I-11
D6606	I-13
D6607	I-12
D6608	I-13
D6609	H-12
D6610	G-13
D6611	G-13
D6612	H-9
D6613	H-9
D6614	H-12
D6615	H-12
D6616	G-11
D6617	G-12
D6619	F-11
D6620	F-13
D6621	G-11
D6622	F-13
D6624	G-10
D6625	F-9
D6626	F-10
D6627	E-13
D6628	E-12
D6629	D-13
D6630	D-13
D6631	B-10
D6632	I-13
D6634	E-11
D6635	C-13
D6636	A-8
D6637	A-13
D6638	A-13
D6639	D-9
D6640	A-8
D6641	A-12
D6642	A-13
D6643	E-9
D6644	C-11
D6645	H-9
D6648	H-12
D6649	G-13
D6650	F-13
D6800	B-7
D6801	A-7
D6803	D-7
D6805	E-7
D6806	B-7
D6807	B-7
D6808	B-8
D6809	D-4
D6812	D-5
D6813	F-5
D6814	F-4
D6816	I-5
D6817	H-5
D6820	H-6
D6821	I-6
D6822	G-5
D6824	H-5
D6825	B-3
D6826	C-5

(3) Schematic Diagram of D1 Board



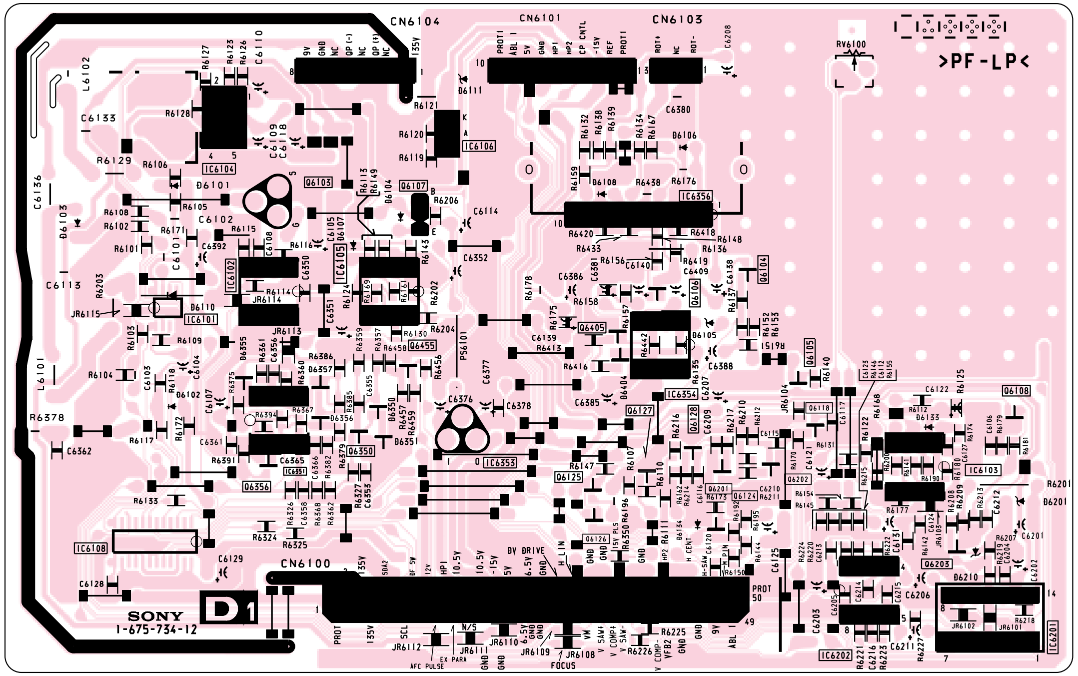
⚠ D1 (DF,DQP)

Schematic diagram D1 board ➡

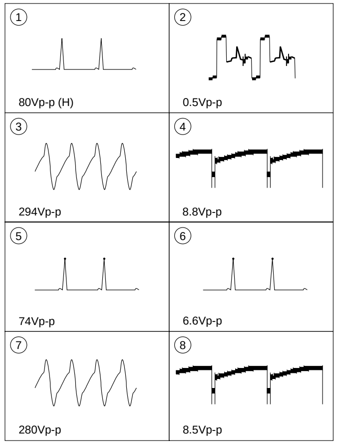
PRINTED WIRING BOARD

D1 [DF, DQP DRIVE]

– D1 Board –



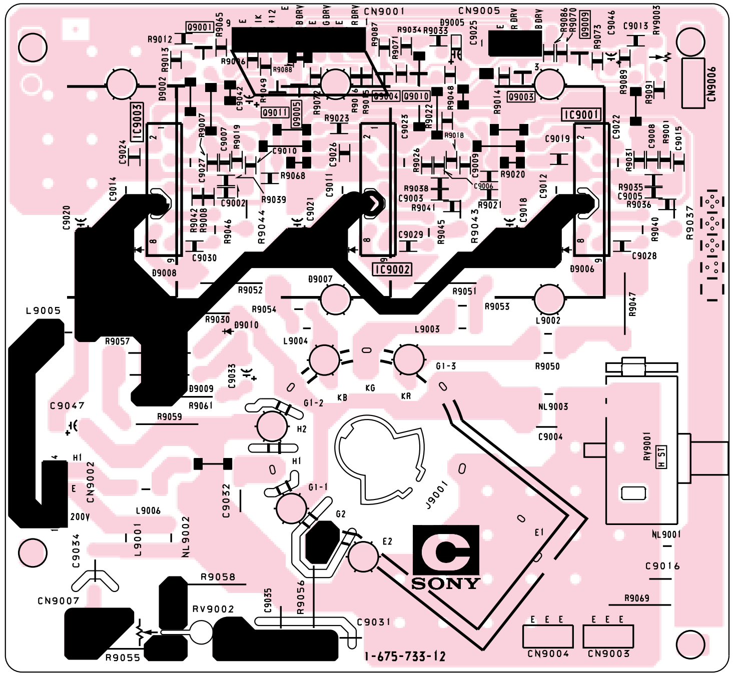
D1 BOARD WAVEFORMS



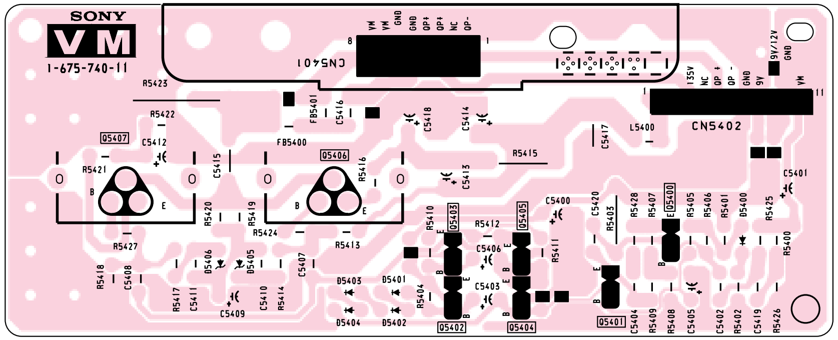
PRINTED WIRING BOARDS

C [CRT DRIVE] **VM** [VM DRIVE] **F1** [AC LINE FILTER]

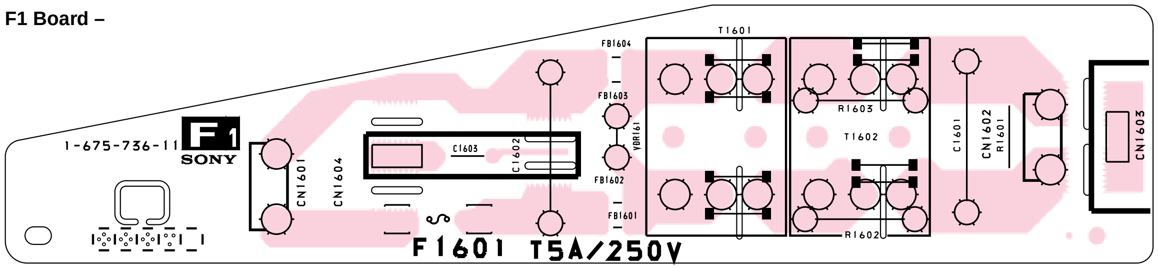
– C Board –



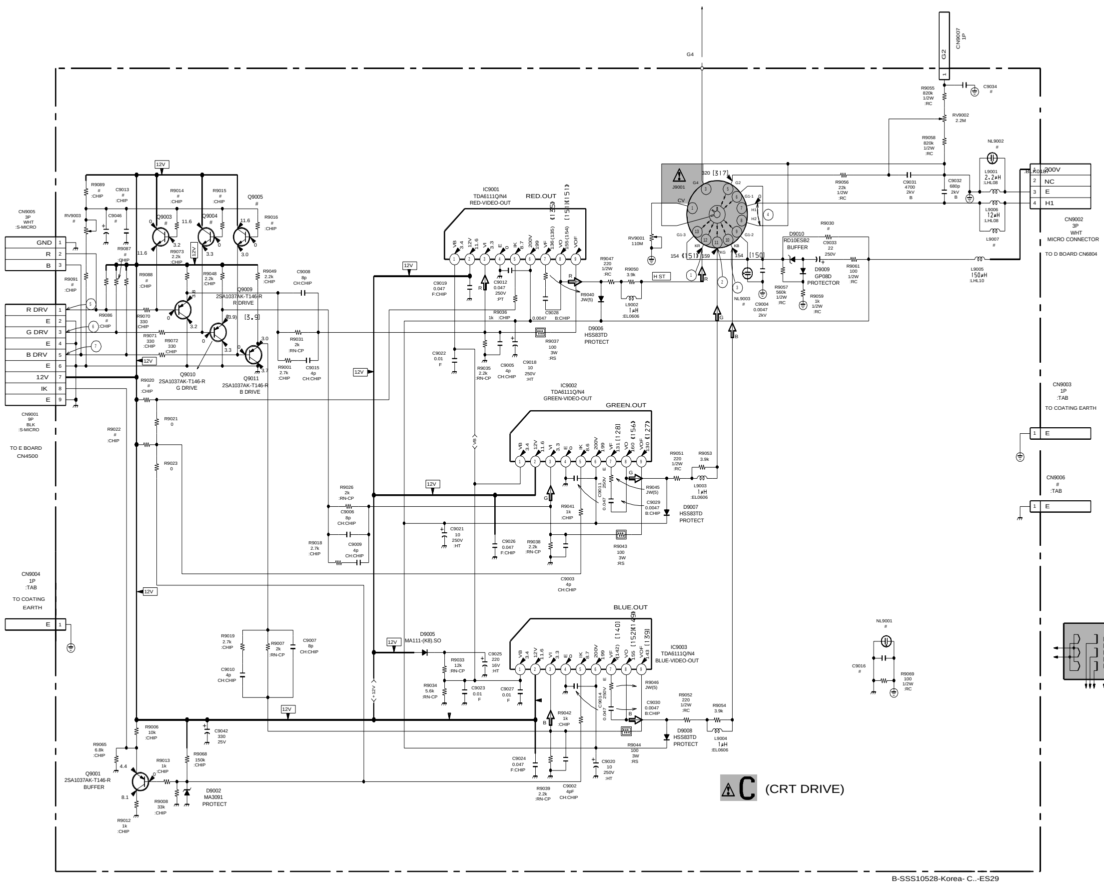
– VM Board –

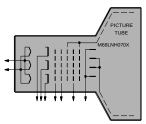


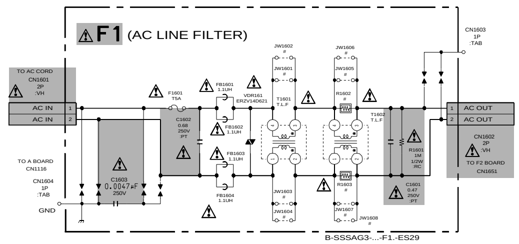
– F1 Board –



(4) Schematic Diagrams of C, F1 and VM Boards

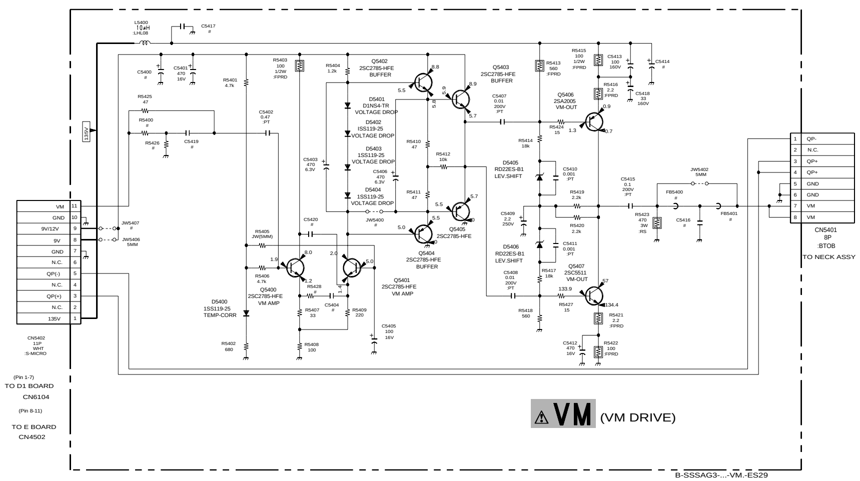




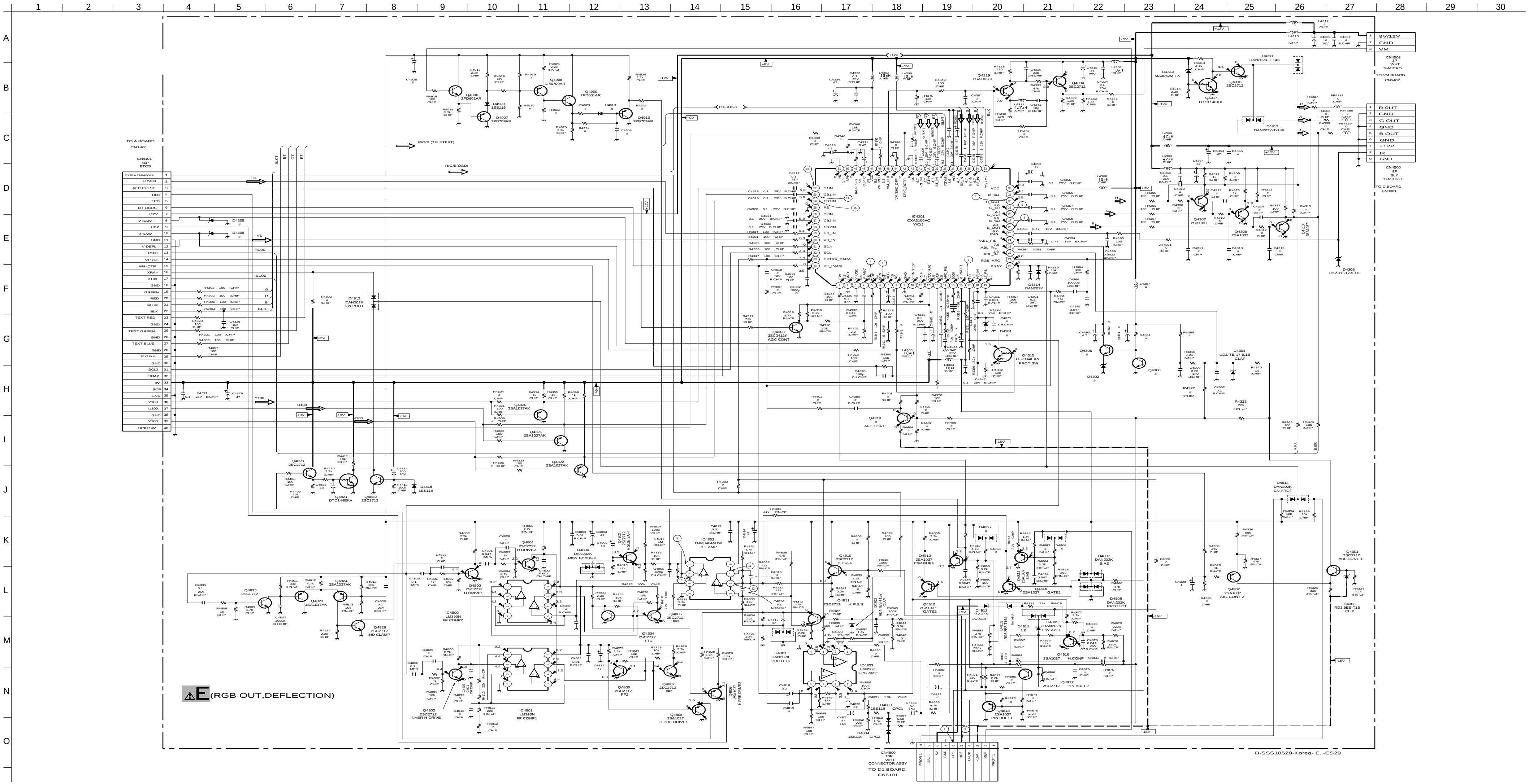


C BOARD WAVEFORMS

① PAL	① SECAM/NTSC	②	③	④
118Vp-p (H)	118Vp-p (H)	117Vp-p (H)	123Vp-p (H)	23.2Vp-p (H)
⑤	⑥	⑦		
4.5Vp-p (H)	4.4Vp-p (H)	4.4Vp-p (H)		



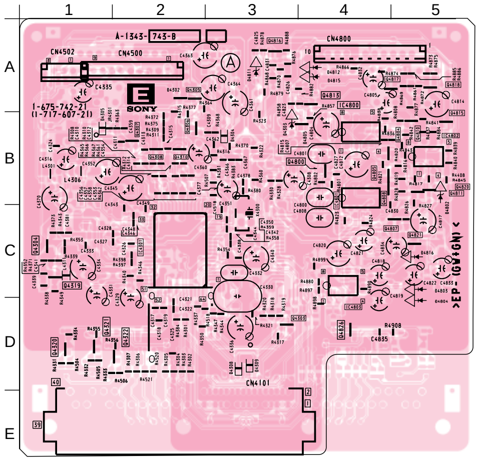
(5) Schematic Diagram of E Board



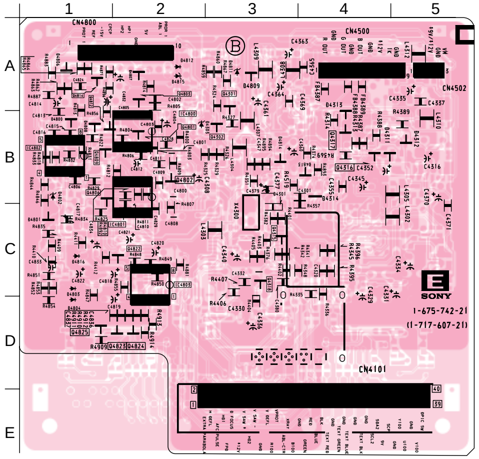
PRINTED WIRING BOARDS

E [RGB OUT, DEFLECTION]

– E Board (Component Side) – (Serial no. 2,000,001 ~ 2,000,030)



– E Board (Conductor Side) –



- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

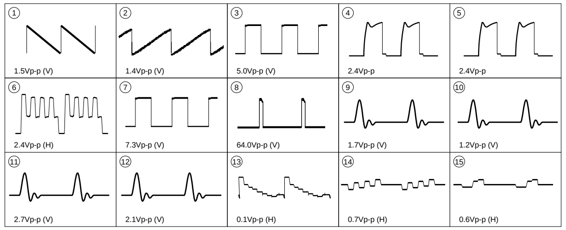
E BOARD (Component Side)

IC	
IC4301	C-2
IC4800	A-4
IC4801	C-4
IC4802	B-5
IC4803	D-4
TRANSISTOR	
Q4303	D-4
Q4304	C-1
Q4305	A-2
Q4307	B-2
Q4308	B-2
Q4310	B-2
Q4319	C-1
Q4320	D-1
Q4321	D-1
Q4322	D-2
Q4800	B-4
Q4804	B-5
Q4805	B-4
Q4806	B-2
Q4807	C-5
Q4808	B-4
Q4810	B-5
Q4811	B-5
Q4813	A-4
Q4815	B-5
Q4816	A-3
Q4817	A-5
Q4818	A-5
DIODE	
D4302	A-2
D4303	B-3
D4304	B-3
D4305	B-12
D4308	D-3
D4309	D-3
D4802	B-5
D4805	B-4
D4806	C-5
D4811	A-3
D4812	A-4
D4815	A-4

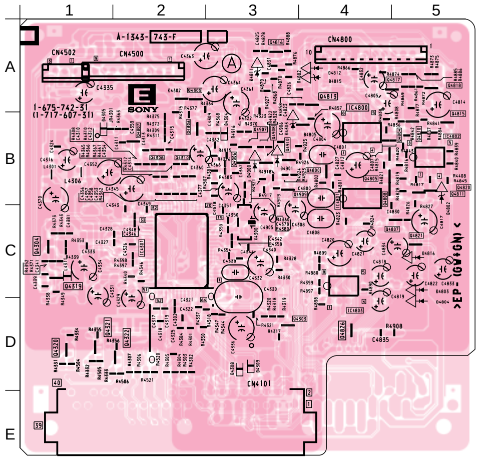
E BOARD (Conductor Side)

IC	
IC4800	B-2
IC4801	C-2
IC4802	B-1
IC4803	C-2
TRANSISTOR	
Q4301	A-3
Q4302	B-3
Q4315	C-3
Q4316	B-4
Q4317	B-4
Q4318	D-3
Q4801	B-2
Q4802	B-2
Q4806	B-12
Q4809	B-1
Q4812	A-1
Q4814	A-1
DIODE	
D4301	C-3
D4303	B-3
D4311	B-5
D4312	B-5
D4313	A-4
D4800	B-1
D4801	C-1
D4802	B-1
D4803	C-1
D4804	C-1
D4806	A-1
D4807	A-2
D4808	B-1
D4809	A-3
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D4812	A-2
D4813	B-4
D4814	B-3
D4815	A-2
D4819	C-3

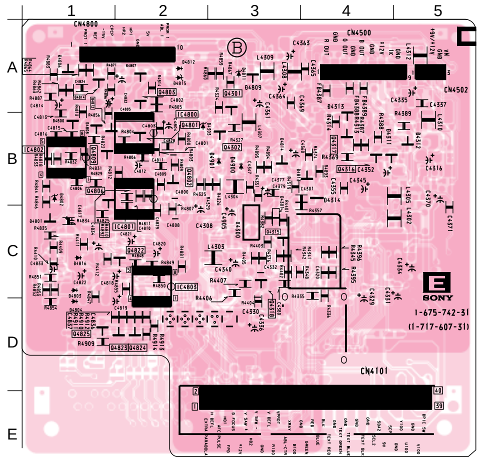
E BOARD WAVEFORMS



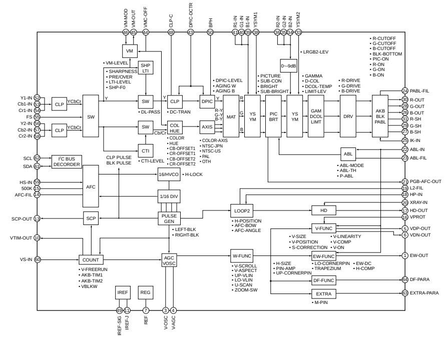
– E Board (Component Side) – (Serial no. 2,000,031 ~ later)



– E Board (Conductor Side) –

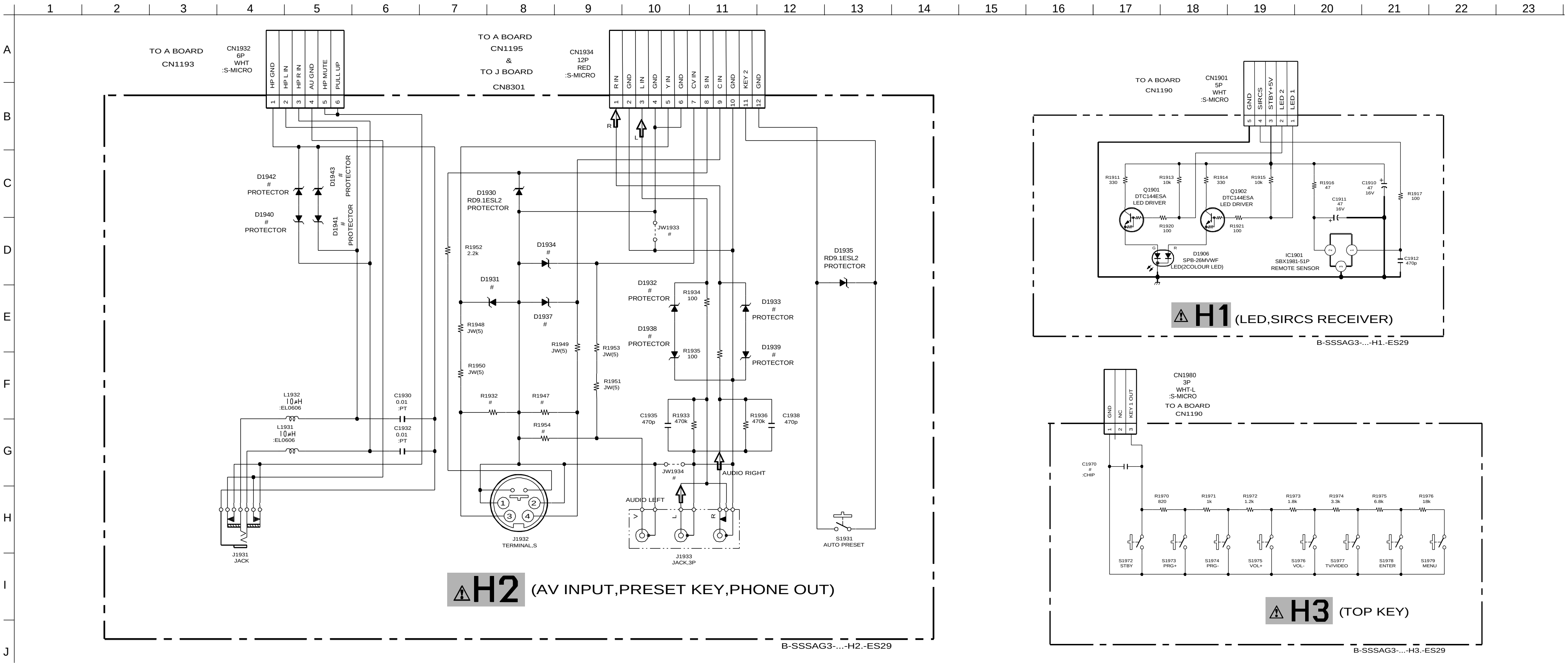


E Board IC4301 CXA2100AQ



Schematic diagrams
H1 H2 H3 boards ➡

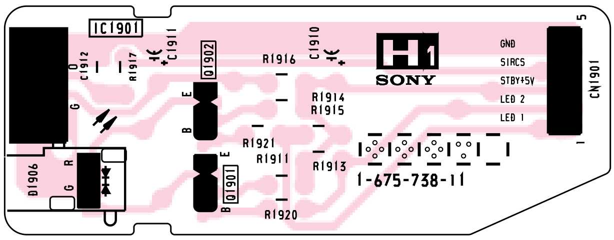
(6) Schematic Diagrams of H1, H2 and H3 Boards



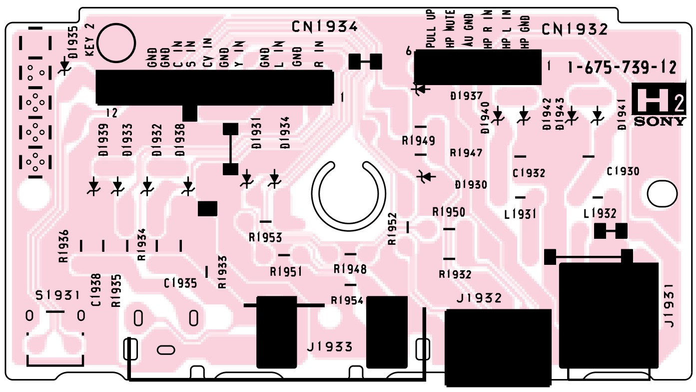
PRINTED WIRING BOARDS

H1 [LED, SIRCS RECEIVER] **H2** [AV INPUT, PRESET KEY, PHONE OUT] **H3** [TOP KEY]

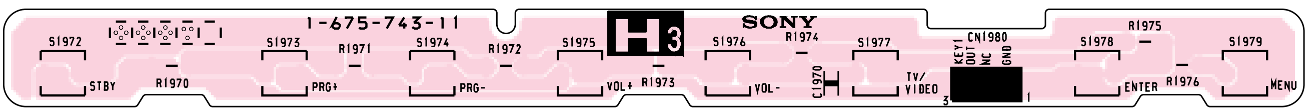
– H1 Board –



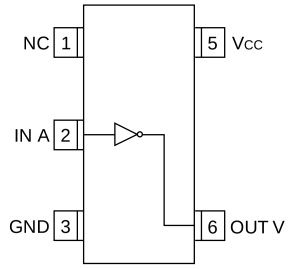
– H2 Board –



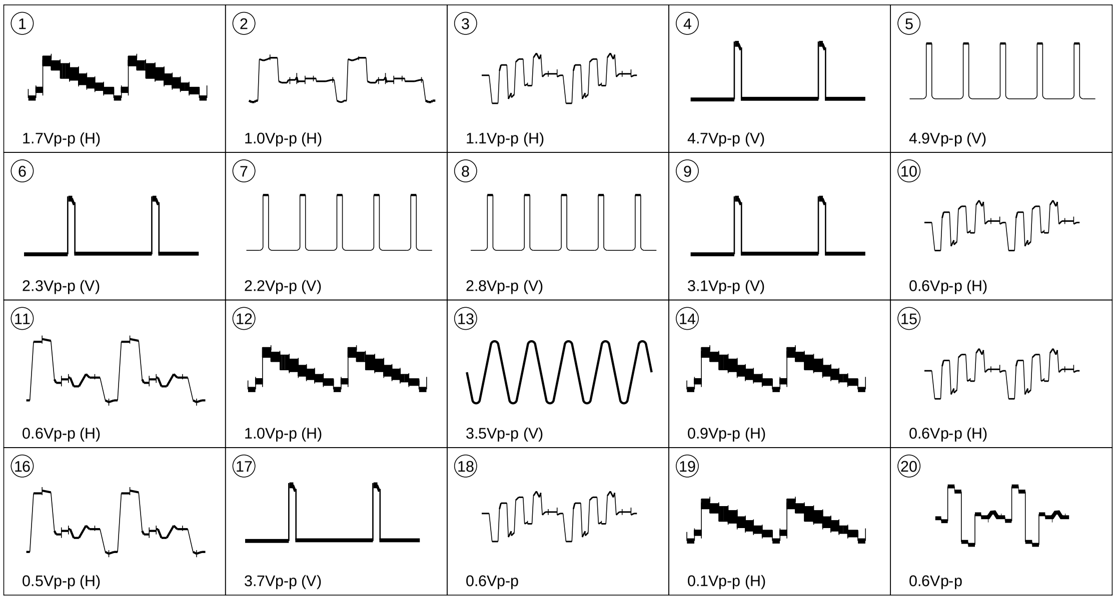
– H3 Board –



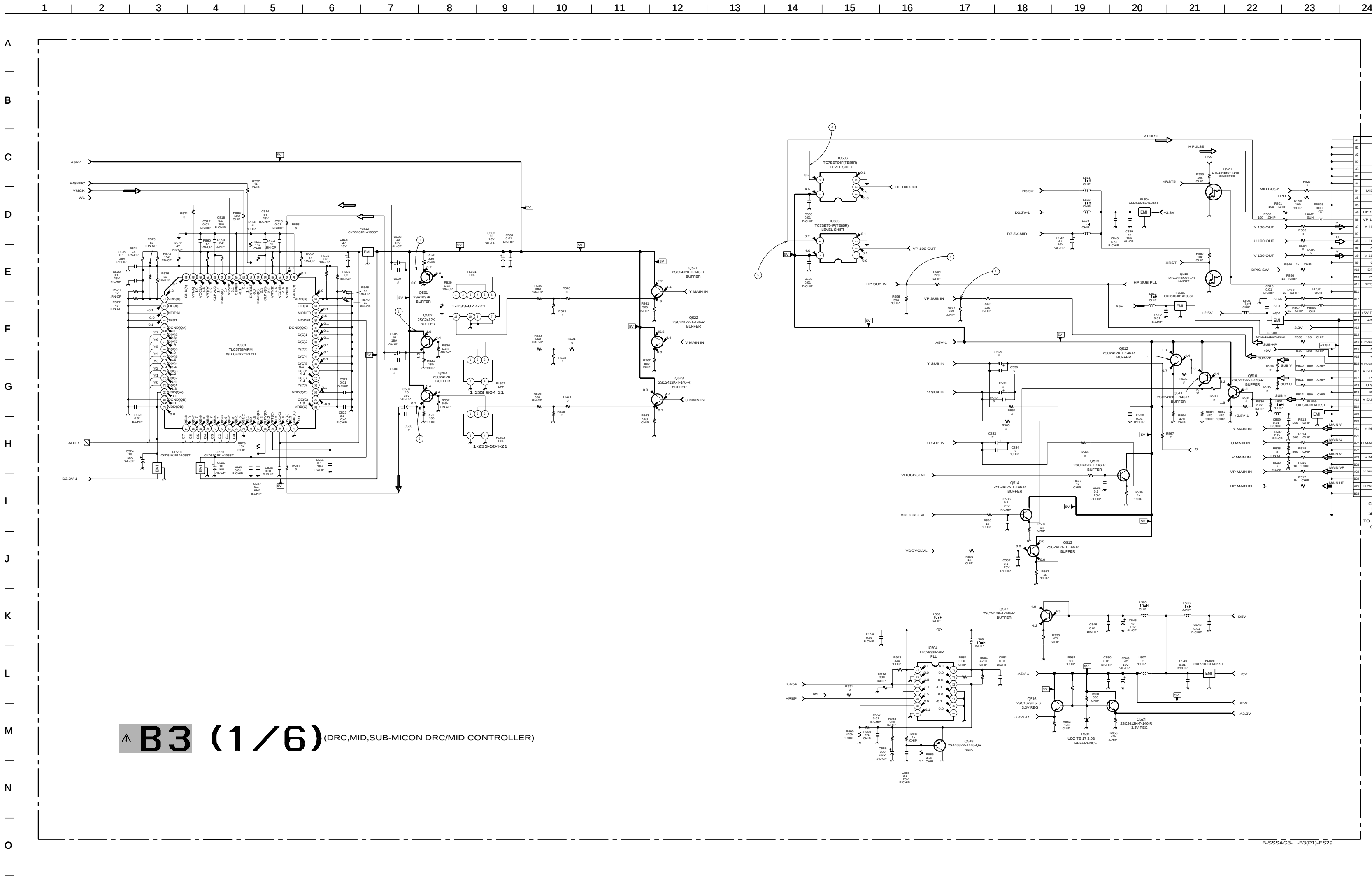
B3 BOARD IC309, IC505 and IC506 TC7SET04F (TE85R)



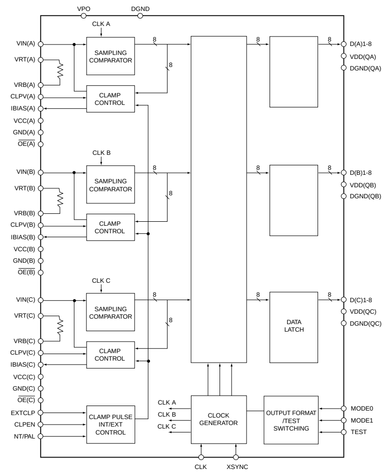
B3 BOARD WAVEFORMS



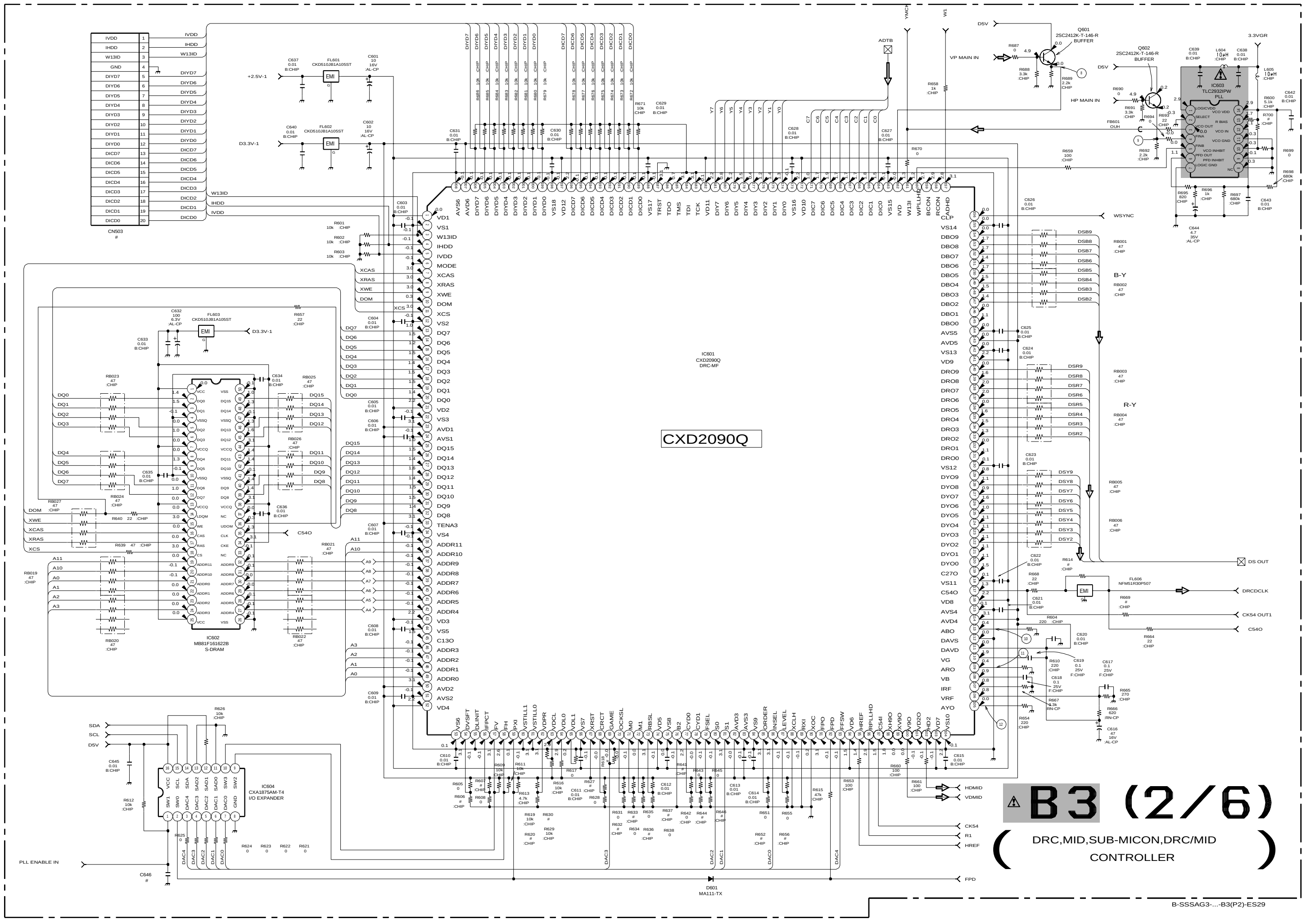
(7) Schematic Diagram of B3 (1/6) Board



B3 BOARD IC501 TLC5733A1PM



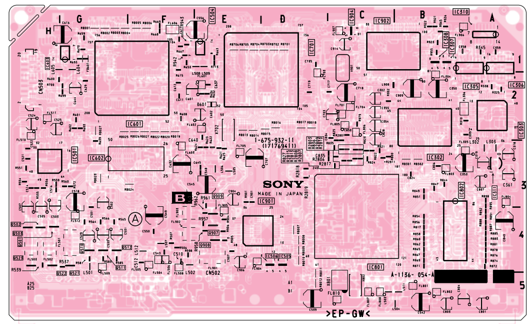
(8) Schematic Diagram of B3 (2/6) Board



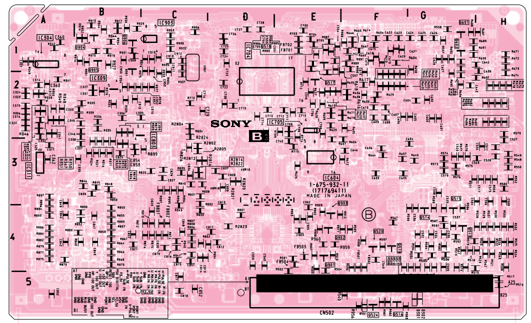
PRINTED WIRING BOARDS

B3 [DRC, MID, SUB MICON, DRC/MID CONTROLLER]

– B3 Board (Component Side) –



– B3 Board (Conductor Side) –



- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

B3 BOARD (Conductor Side)

IC		Q519	D-6
IC304	A-1	Q520	D-6
IC309	B-2	Q524	E-6
IC311	C-1	Q601	A-7
IC604	C-5	Q602	A-7
IC704	A-4	Q901	D-5
IC705	B-4	Q902	D-5
IC803	C-3	Q903	C-6
IC903	A-3	Q904	A-2
TRANSISTOR		Q905	A-2
Q513	D-7	Q906	A-2
Q514	D-7	**DIODE**	
Q515	C-7	D301	A-7
Q516	E-6	D302	B-5
Q517	B-5	D901	B-11
Q518	A-4		

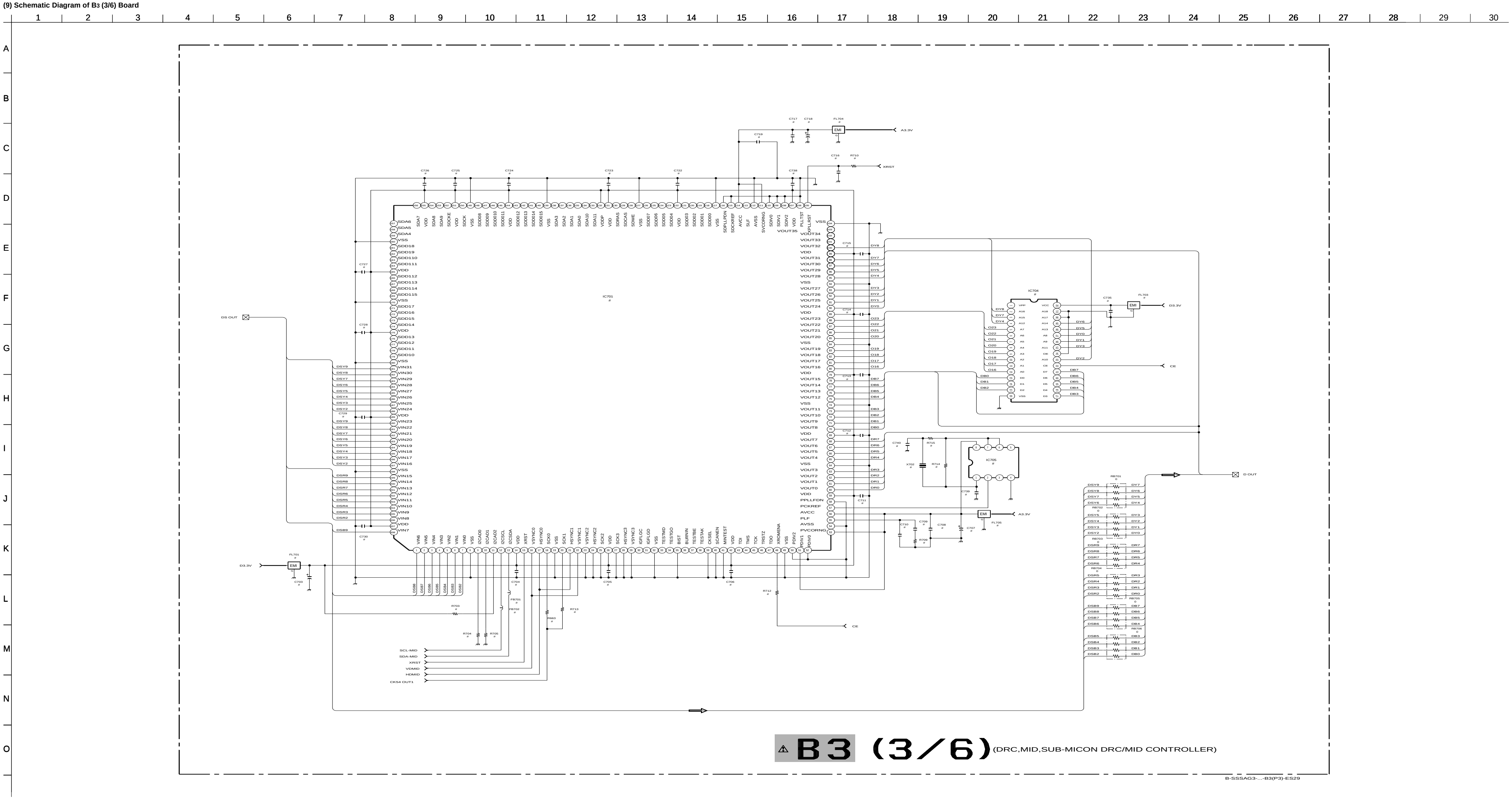
B3 BOARD (Component Side)

IC		TRANSISTOR	
IC302	C-7	Q501	D-6
IC303	B-8	Q502	E-7
IC305	B-7	Q503	F-6
IC306	B-8	Q510	D-2
IC307	A-7	Q511	F-1
IC308	A-7	Q512	D-2
IC310	A-7	Q521	E-2
IC311	C-8	Q522	E-1
IC501	C-1	Q523	D-1
IC504	A-4	Q907	D-4
IC505	D-5	Q908	D-3
IC506	D-4	Q909	C-4
IC601	I-8	**DIODE**	
IC602	H-6	D601	I-8
IC603	D-8		
IC701	A-5		
IC801	E-6		
IC802	C-7		
IC901	I-13		
IC902	A-6		
IC904	A-6		

Schematic diagram ← B3 (1/6) board

Schematic diagram B3 (2/6) board →

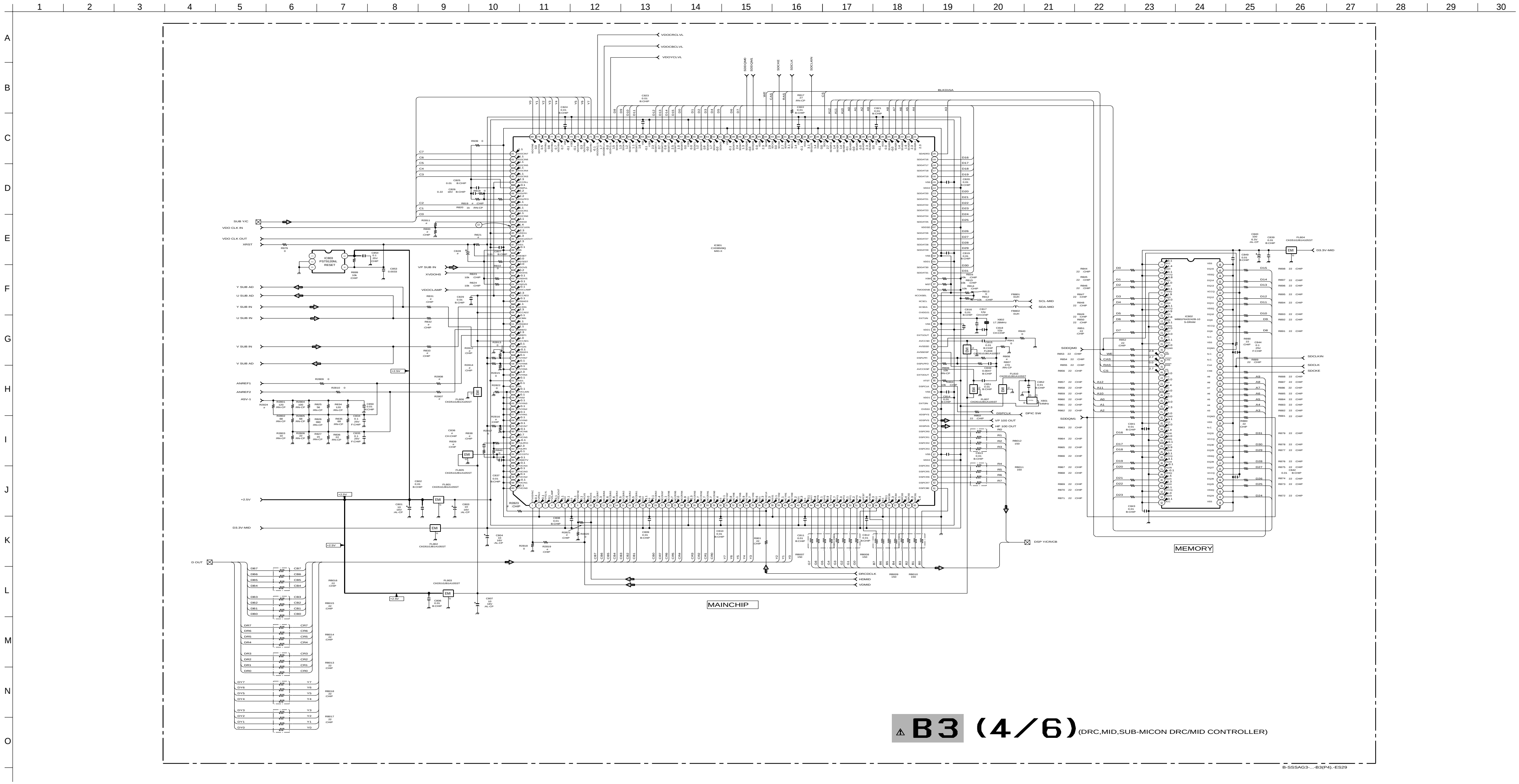
(9) Schematic Diagram of B3 (3/6) Board



B3 (3/6) (DRC,MID,SUB-MICON DRC/MID CONTROLLER)

B-SSSAG3-...-B3(P3)-ES29

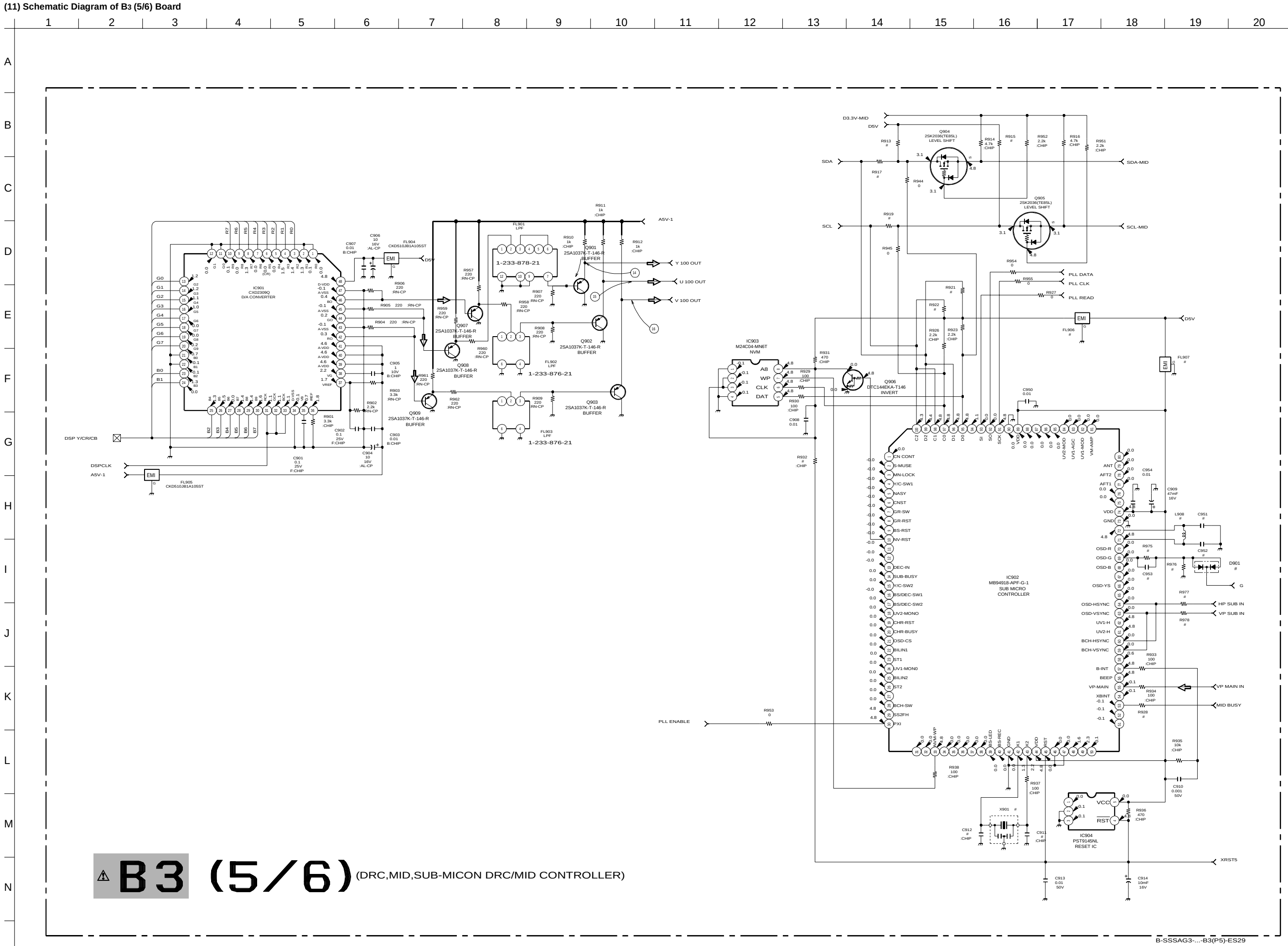
(10) Schematic Diagram of B3 (4/6) Board



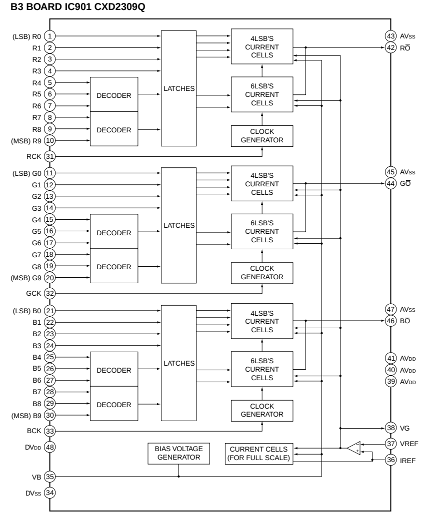
Schematic diagram ← B3 (3/6) board

Schematic diagram B3 (4/6) board →

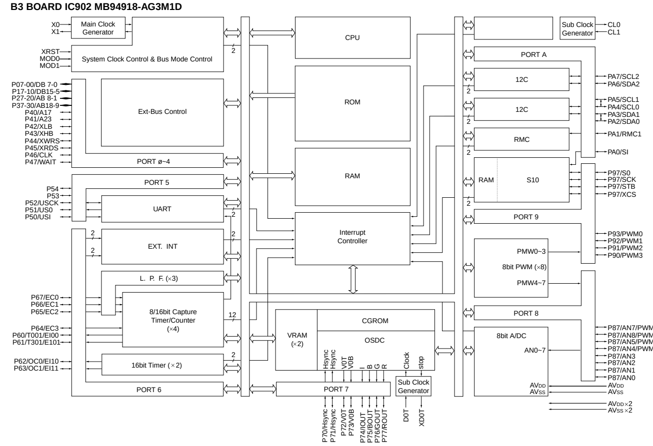
(11) Schematic Diagram of B3 (5/6) Board

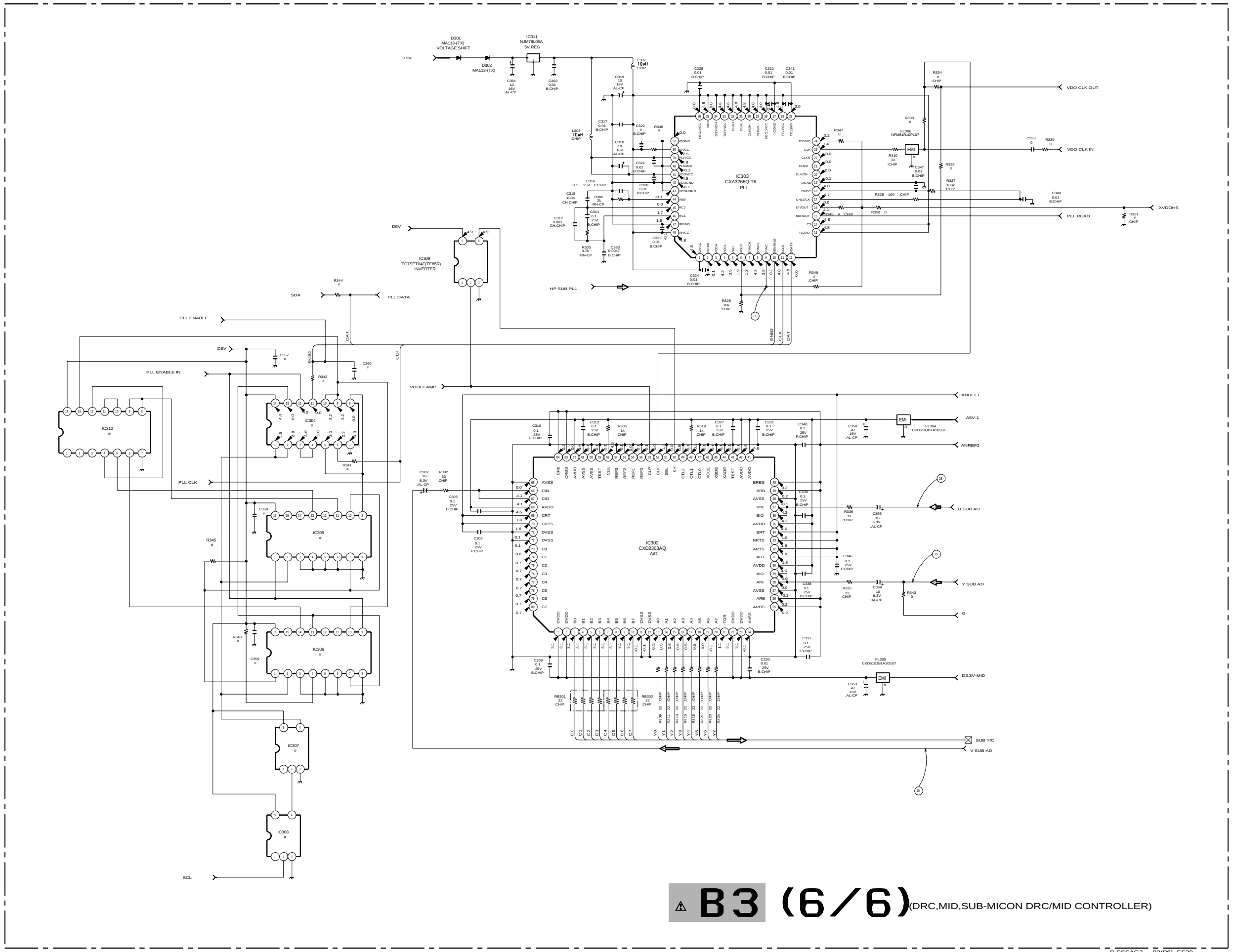


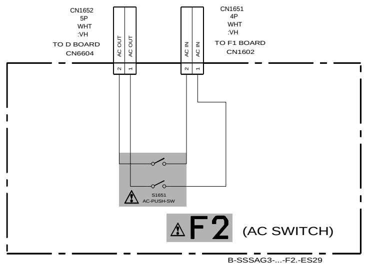
B3 BOARD IC901 CXD2309Q



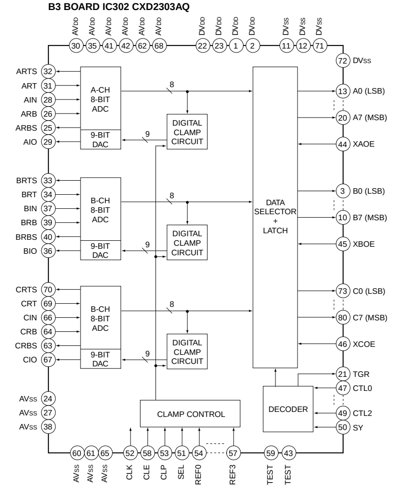
B3 BOARD IC902 MB94918-AG3M1D



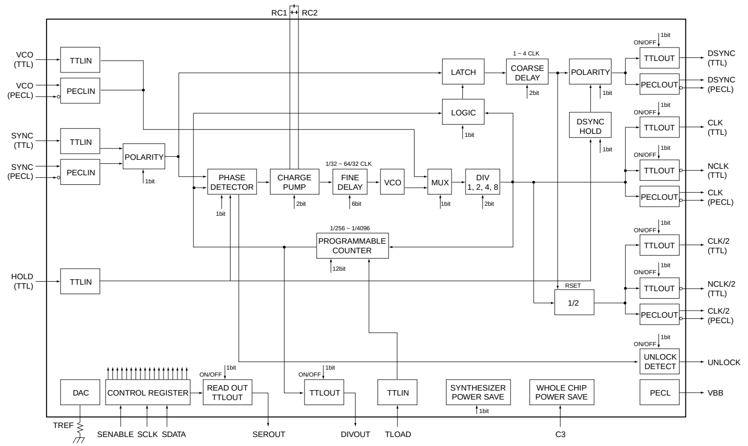




B3 BOARD IC302 CXD2303AQ



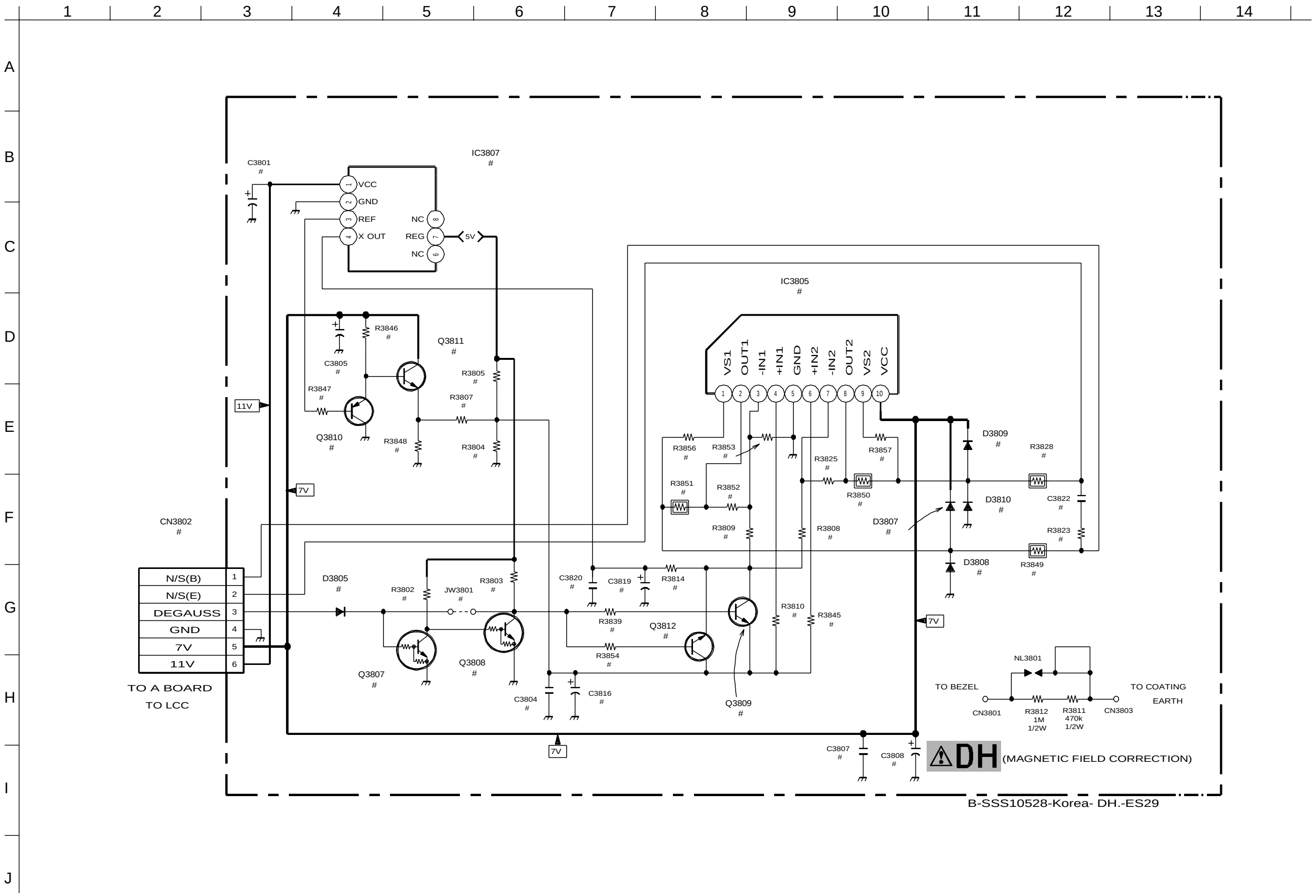
B3 BOARD IC303 CXA3266Q-T6



Schematic diagram ← B3 (5/6) board

Schematic diagrams B3 (6/6) F2 boards →

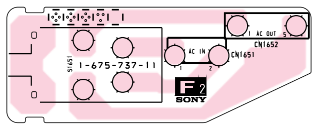
(13) Schematic Diagram of DH Board



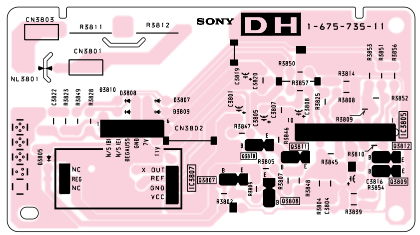
PRINTED WIRING BOARDS

F2 [AC SWITCH]   **DH** [MAGNETIC FIELD CORRECTION]

– F2 Board –



– DH Board –



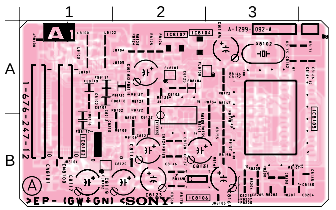
Schematic diagram
DH board

KV-ES29K90
RM-959

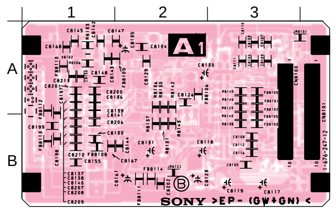
A1 [AUDIO DSP]

PRINTED WIRING BOARDS

– A1 Board (Component Side) –



– A1 Board (Conductor Side) –

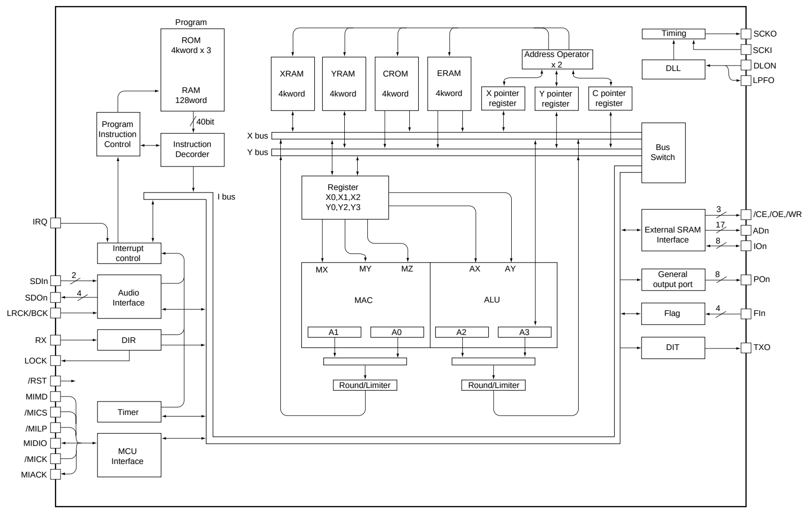


- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

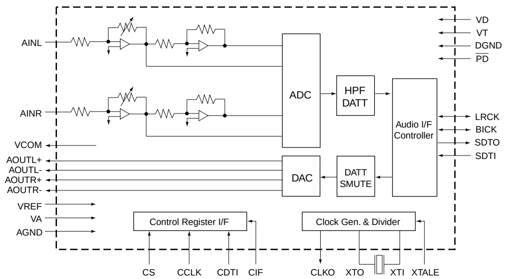
A1 BOARD (Component Side)

IC	
IC8102	B-1
IC8104	A-2
IC8105	B-4
IC8106	B-3
IC8108	B-1

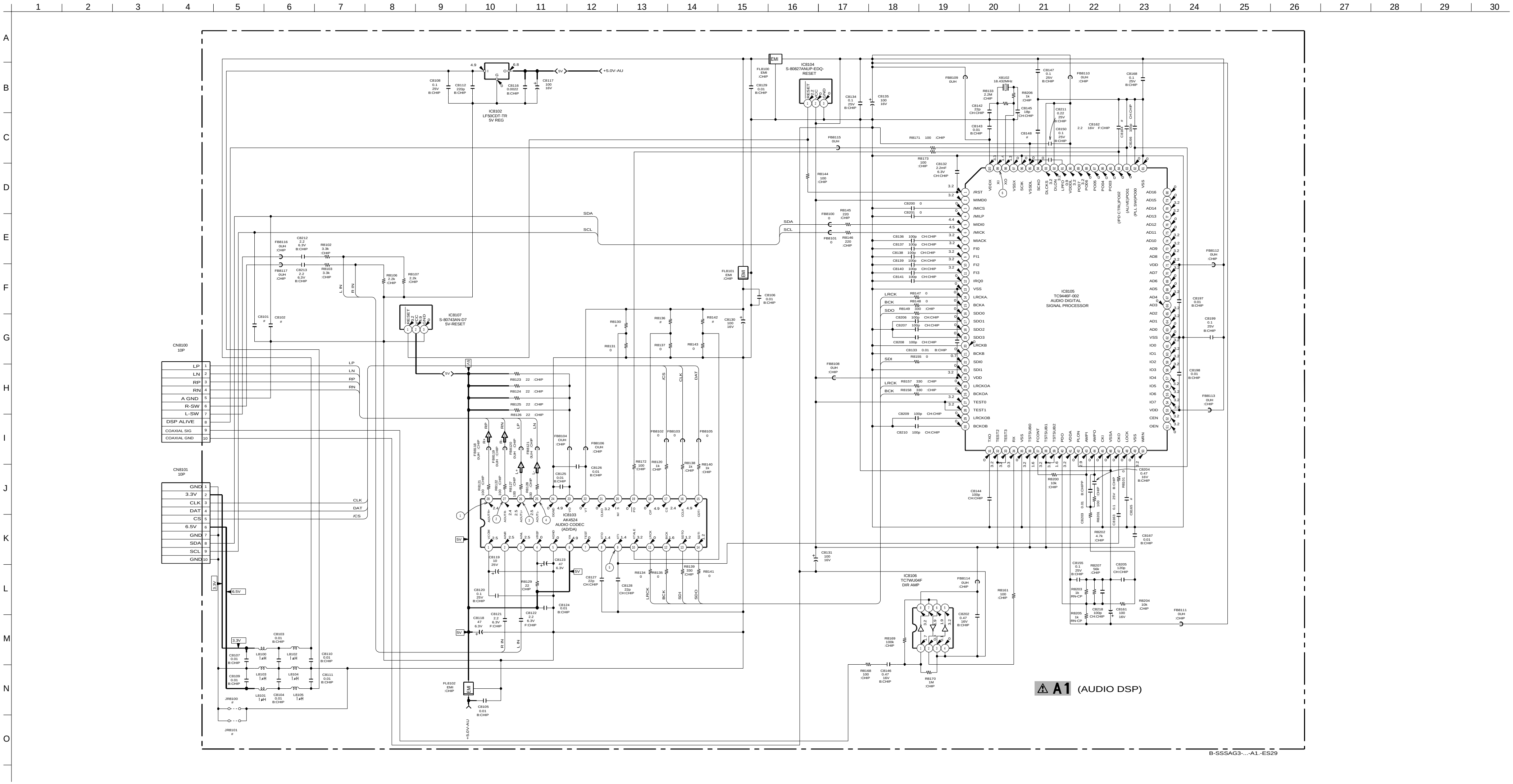
A1 BOARD IC8105 TC9446F-002 (TE85R)



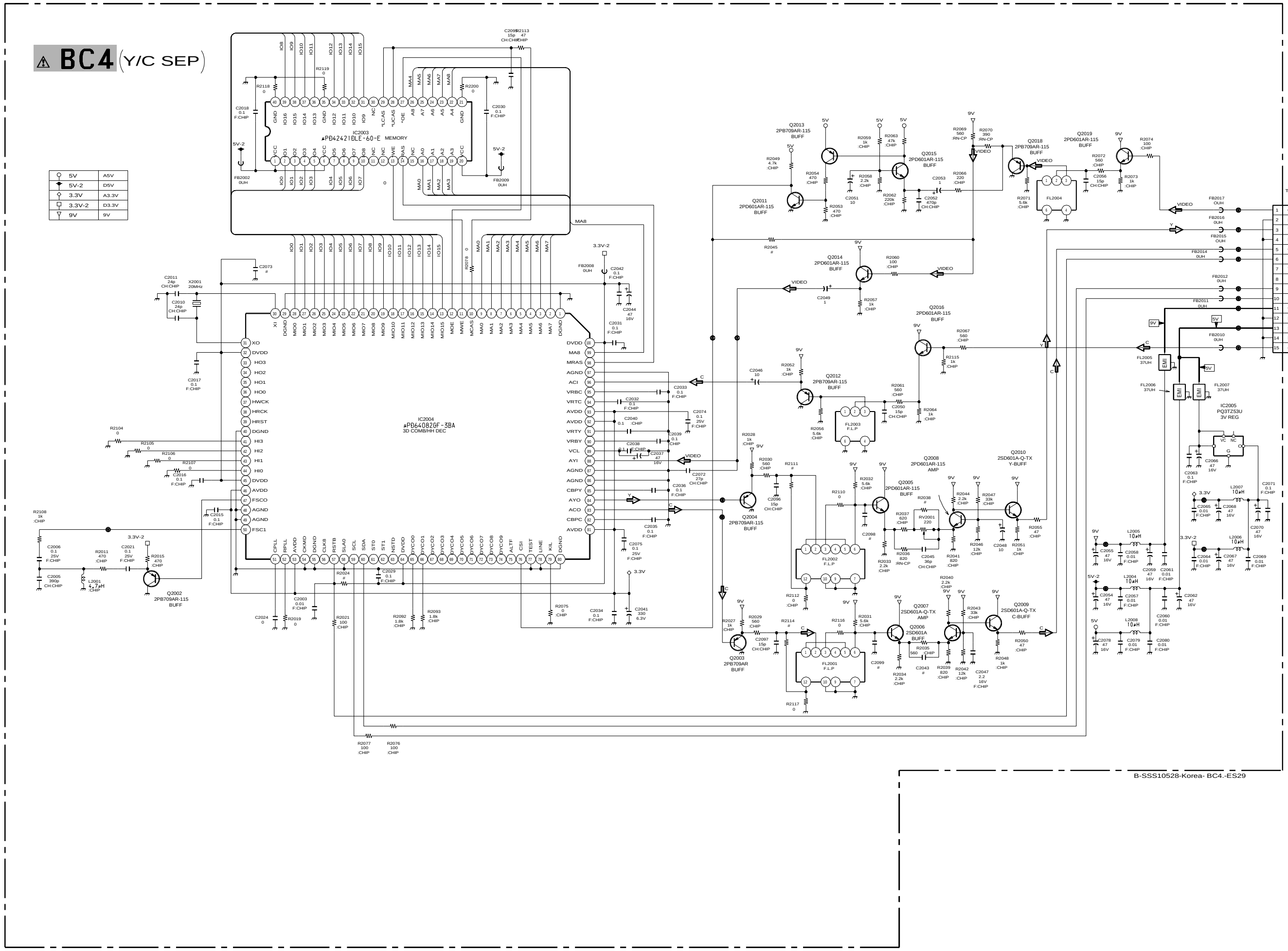
A1 Board IC8103 AK4524



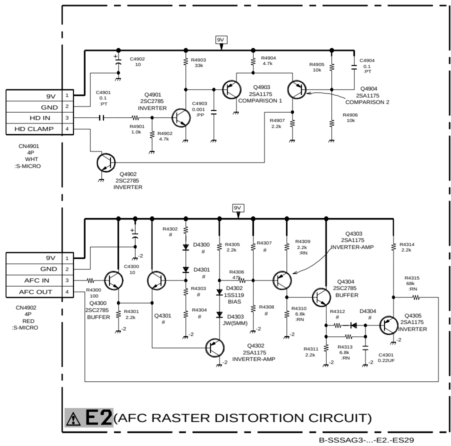
(14) Schematic Diagram of A1 Board



(15) Schematic Diagrams of BC4 and E2 Boards



(Serial No. 2,000,001 ~ 2,000,030)

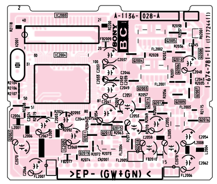


PRINTED WIRING BOARDS

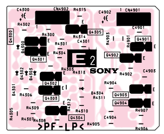
BC4 [Y/C SEP]

E2 [AFC RASTER DISTORTION CIRCUIT]

– BC4 Board –



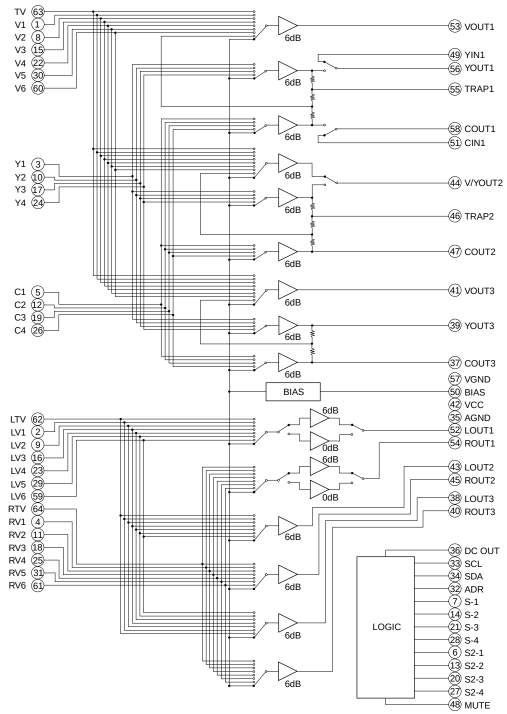
– E2 Board – (Serial No. 2,000,001 ~ 2,000,030)



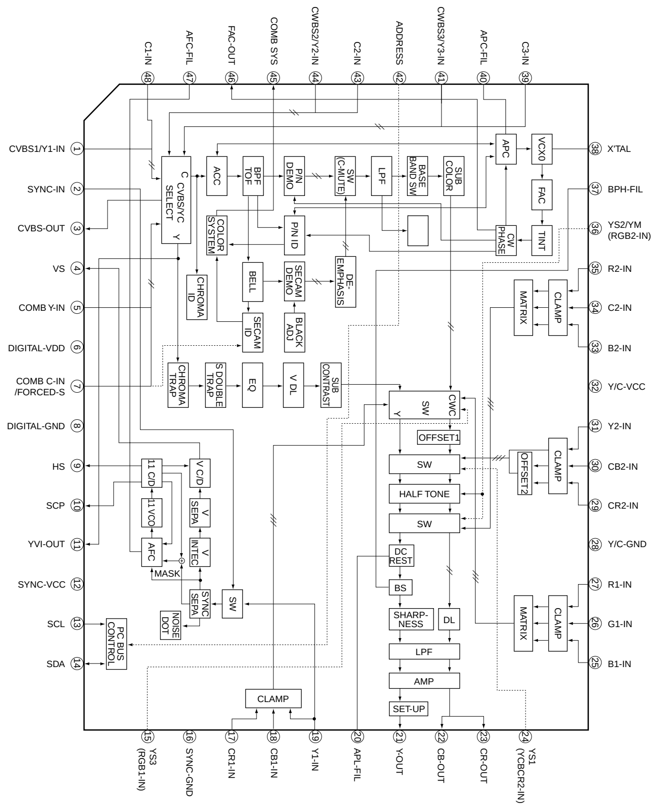
Schematic diagram ← A1 board

Schematic diagrams BC4 E2 board →

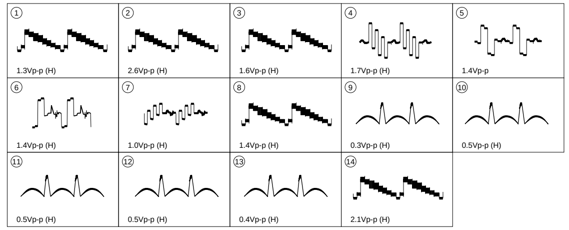
J Board IC8302 CXA2069Q



J Board IC8306 CXA2123AQ-T6



J BOARD WAVEFORMS

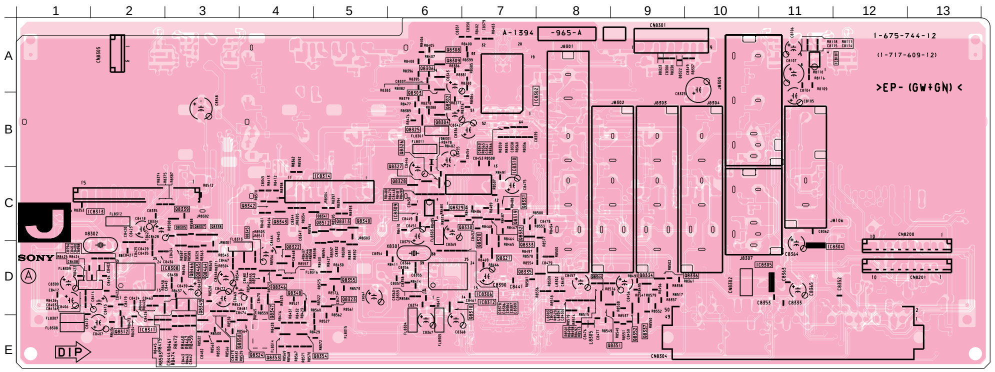


KV-ES29K90
RM-959
KV-ES29K90
RM-959

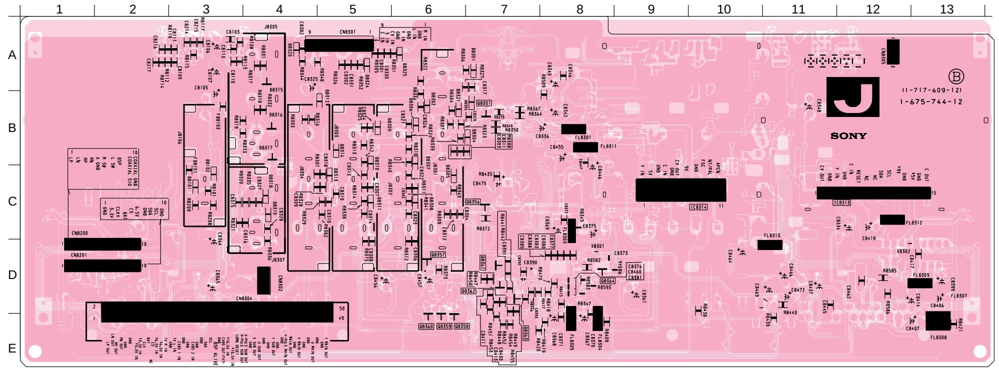
J [YCT, COMB FILTER, VIDEO/AUDIO-IN/OUT]

PRINTED WIRING BOARDS

– J Board (Component Side) –



– J Board (Conductor Side) –



- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

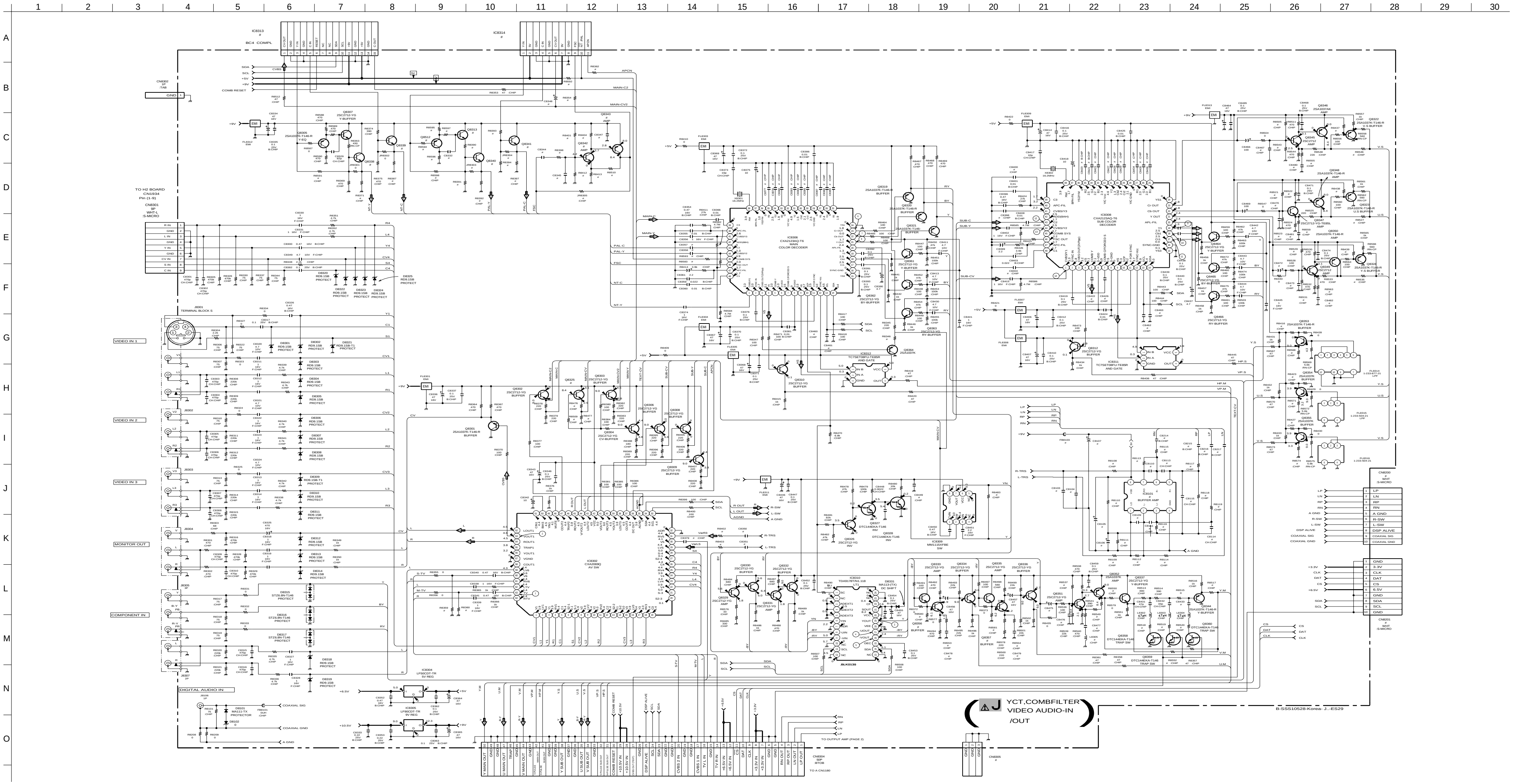
J BOARD (Component Side)

Ref.	Location
IC	
IC0302	A-8
IC8101	A-12
IC8102	E-13
IC8103	B-13
IC8105	A-13
IC8106	C-12
IC8107	D-12
IC8304	D-12
IC8305	D-11
IC8306	D-7
IC8308	D-2
IC8309	C-6
IC8310	B-7
IC8311	E-3
IC8312	D-7
IC8313	C-2
IC8314	B-5
TRANSISTOR	
Q8302	A-6
Q8303	A-6
Q8304	B-6
Q8305	C-3
Q8306	A-6
Q8307	C-3
Q8308	A-6
Q8309	A-6
Q8310	D-7
Q8312	E-3
Q8313	C-5
Q8319	C-7
Q8320	C-7
Q8321	D-7
Q8322	D-4
Q8323	D-5
Q8324	D-4
Q8325	B-6
Q8326	B-6
Q8327	B-6
Q8328	C-6
Q8329	C-7
Q8330	C-7
Q8331	C-7
Q8332	C-7
Q8333	C-7
Q8334	D-9
Q8335	D-7
Q8336	D10
Q8337	E-9
Q8338	C-3
Q8339	C-3
Q8340	C-5
Q8341	C-5
Q8342	C-4
Q8343	C-4
Q8344	D-8
Q8345	C-3
Q8346	D-4
Q8347	D-4
Q8348	D-5
Q8349	E-3
Q8350	D-4
Q8351	D-9
Q8352	E-9
Q8353	E-5
Q8354	E-5
Q8355	D-5

J BOARD (Conductor Side)

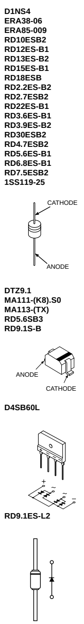
Ref.	Location
IC	
IC8104	B-2
IC8313	C-12
IC8314	C-10
TRANSISTOR	
Q8301	B-7
Q8356	C-7
Q8357	D-6
Q8358	E-7
Q8359	E-6
Q8360	E-6
DIODE	
D8101	C-3
D8102	C-3
D8301	A-4
D8302	B-6
D8303	B-7
D8304	B-7
D8305	C-6
D8306	B-6
D8307	B-6
D8308	C-6
D8309	B-6
D8310	B-5
D8311	C-5
D8313	C-5
D8314	B-5
D8315	A-4
D8316	B-4
D8317	B-4
D8318	C-4
D8319	C-4
D8320	A-4
D8321	B-6
D8325	A-4

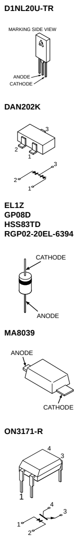
(16) Schematic Diagram of J Board

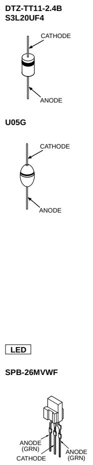


6-5. SEMICONDUCTORS

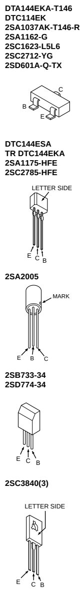
DIODE

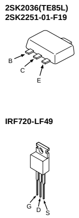




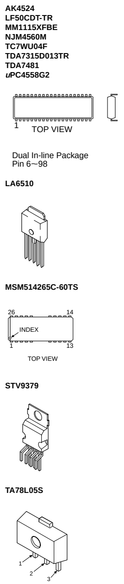


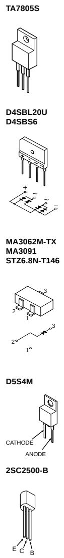
TRANSISTOR

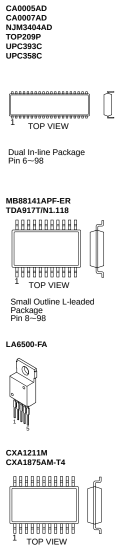


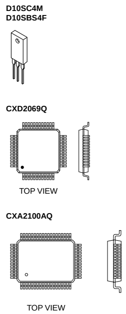


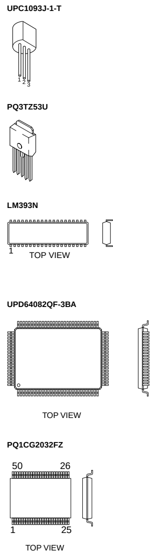
IC

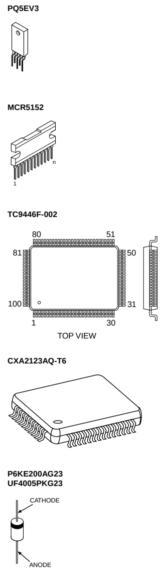


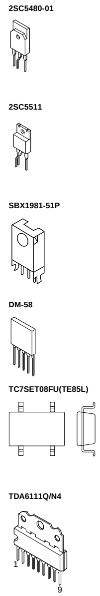


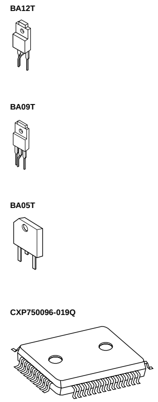


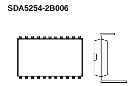












Schematic diagram
← J board

SECTION 7
EXPLODED VIEWS

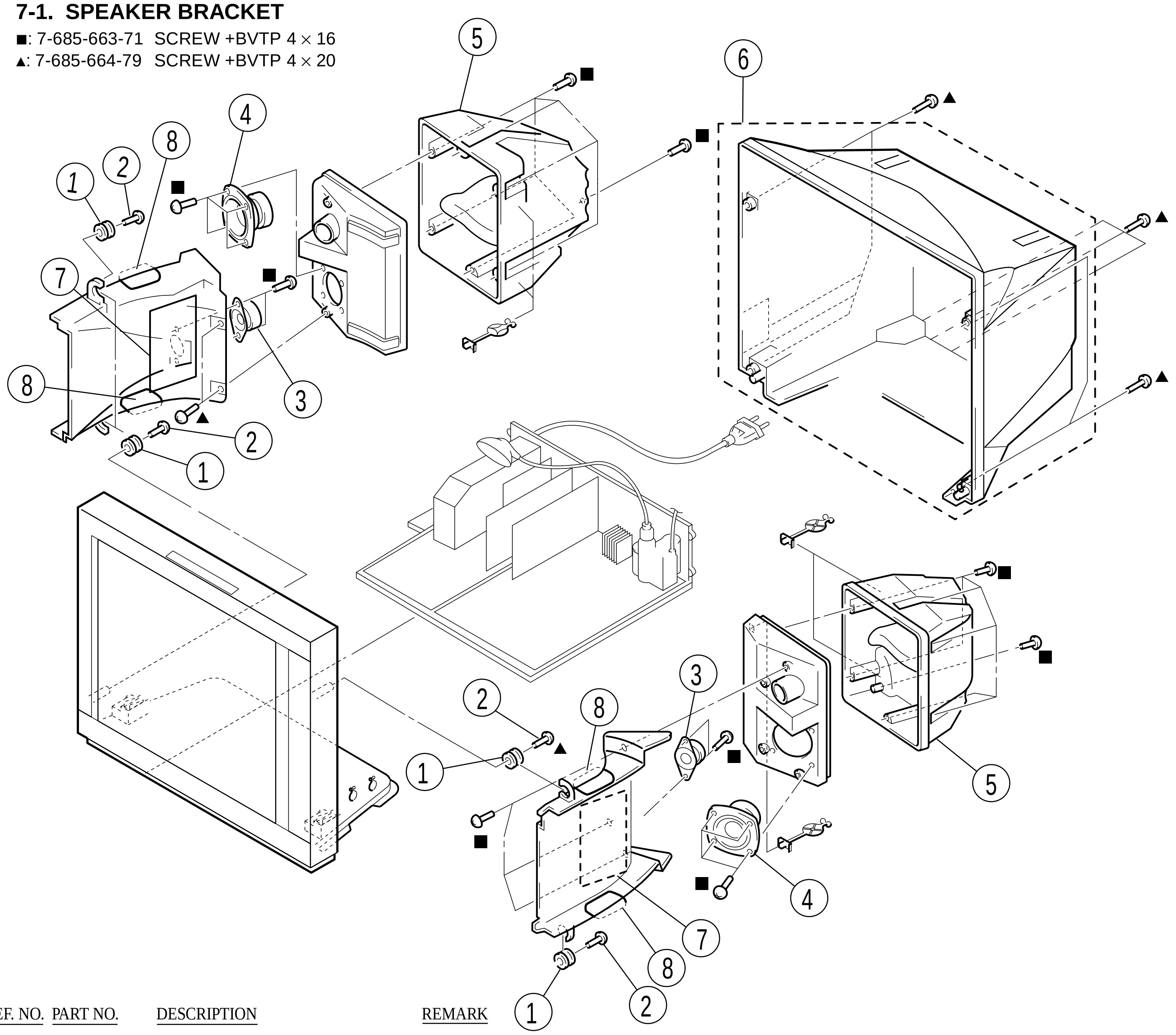
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

CAUTION: The aluminium frame must be connected to the ground with the ground cable from DH board. Failure to do so, may cause the user to suffer electric shock.

7-1. SPEAKER BRACKET

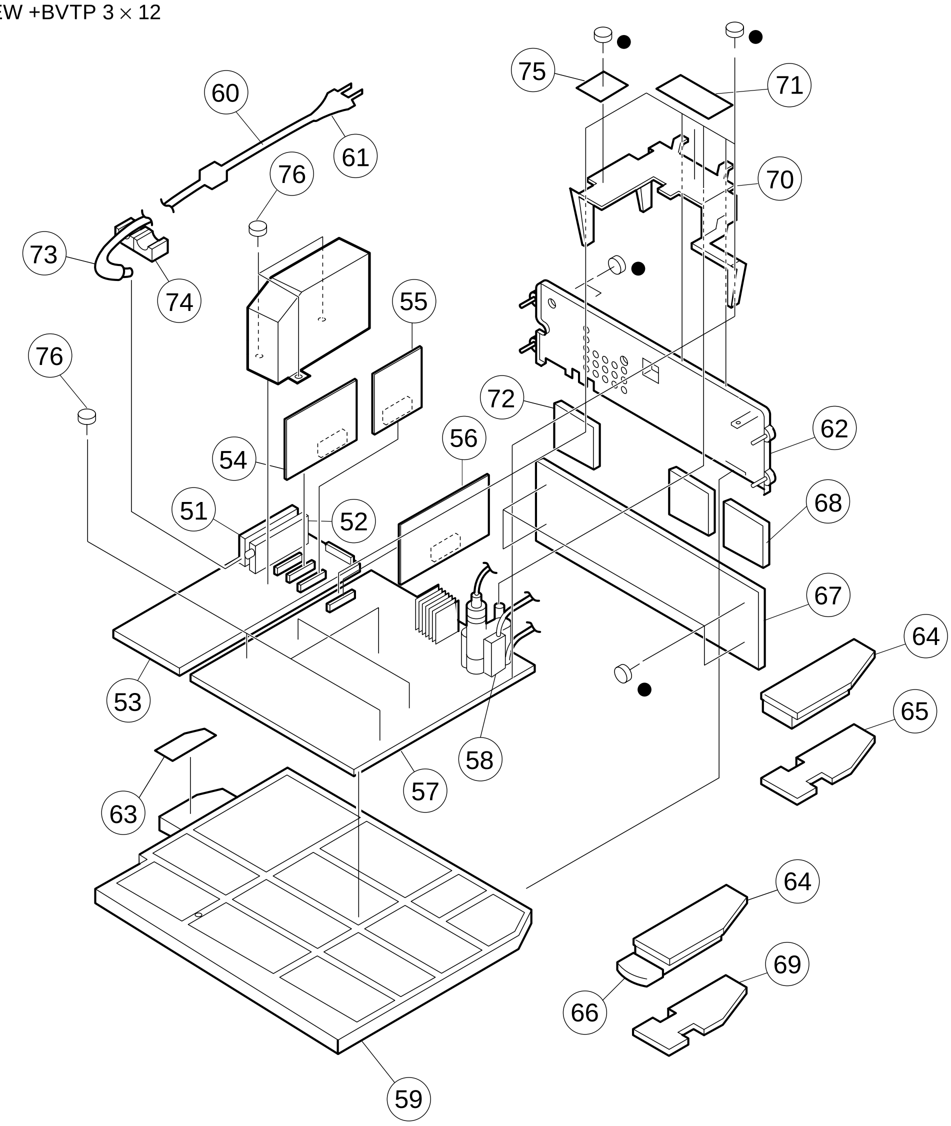
■: 7-685-663-71 SCREW +BVTP 4 × 16
▲: 7-685-664-79 SCREW +BVTP 4 × 20



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-374-745-11	CUSHION (A)	
2	4-064-929-02	SCREW, TP+TWH 4X25	
3	1-529-532-11	SPEAKER (5CM)	
4	1-505-473-11	SPEAKER (12CM)	
5	* 4-071-302-01	DUCT, SPEAKER	
6	X-4036-878-2	COVER ASSY, REAR	
7	* 4-073-084-01	DUCT, CUSHION	
8	* 4-074-512-01	CUSHION (S), DGC	

7-2. CHASSIS

●: 7-685-648-71 SCREW +BVTP 3 × 12

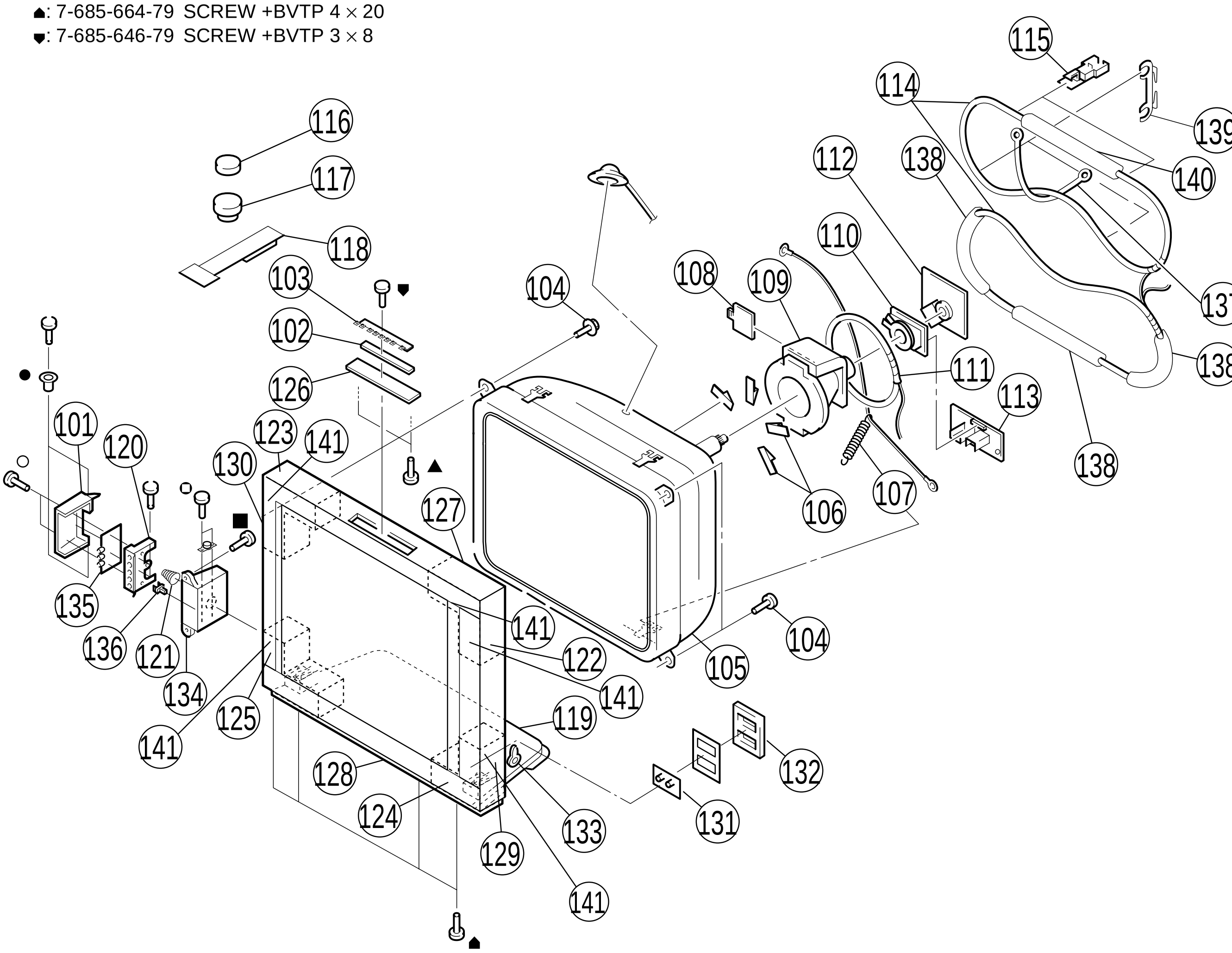


REF. NO.	PART NO.	DESCRIPTION	REMARK
51	8-598-475-01	TUNER, FSS BTF-WL411	
52	8-598-430-20	TUNER, FSS BTF-FA401	
53	* A-1299-238-A	A BOARD COMPLETE	
54	* A-1136-054-A	B3 BOARD COMPLETE	
55	* A-1343-743-E	E BOARD MOUNTED (serial no. 2,000,001~2,000,030)	
	* A-1343-743-F	E BOARD MOUNTED (serial no. 2,000,031 and later)	
56	* A-1343-742-D	D1 BOARD MOUNTED	
57	* A-1346-882-B	D BOARD COMPLETE	
58	⚠ 1-453-325-11	TRANSFORMER ASSY, FLYBACK (NX-4522//J1I4)	
59	* 4-071-314-02	BRACKET, MAIN	
60	⚠ 4-022-115-01	HOLDER, AC CORD	
61	⚠ 1-792-764-11	CORD, POWER (WITH FILTER)	
62	* 4-071-315-01	BRACKET, TERMINAL	
63	* A-1241-402-A	F1 BOARD MOUNTED	
64	* 4-071-307-02	HOLDER, F2 /H1	
65	* A-1372-728-A	H1 BOARD MOUNTED	

REF. NO.	PART NO.	DESCRIPTION	REMARK
66	4-071-305-03	BUTTON, POWER	
67	* A-1394-979-A	J BOARD COMPLETE	
68	* A-1136-069-A	BC4 BOARD COMPLETE	
69	* A-1241-403-A	F2 BOARD MOUNTED	
70	* 4-071-316-02	SUPPORTER, PWB	
71	* A-1343-791-A	DH BOARD MOUNTED	
72	* A-1299-092-A	A1 BOARD COMPLETE	
73	1-792-458-11	CABLE, RF (WITH FERRITE)	
74	1-543-827-11	CLAMP, SLEEVE FERRITE	
75	A-1343-861-A	E2 BOARD MOUNT (serial no. 2,000,001~2,000,030)	
76	4-302-428-03	SCREW (WASHER HEAD) (+P 3 X 12)	

7-3. PICTURE TUBE

●: 7-685-648-71 SCREW +BVTP 3 × 12
■: 7-685-663-71 SCREW +BVTP 4 × 16
▲: 7-685-661-14 SCREW +BVTP 4 × 12
○: 7-685-103-11 SCREW +P 2 × 5
○: 7-685-152-19 SCREW +P 3 × 25
▲: 7-685-664-79 SCREW +BVTP 4 × 20
▼: 7-685-646-79 SCREW +BVTP 3 × 8



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-071-308-01	DOOR, CONTROL	
102	* A-1372-730-A	H3 BOARD MOUNTED	
103	4-071-312-03	BUTTON, TOP SW	
104	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
105	⚠ 8-735-057-05	PICTURE TUBE (M68LNH070X)	
106	3-703-961-01	SPACER, DY	
107	4-369-318-61	SPRING, TENSION	
108	2-163-920-01	PLATE, TLH CORRECTION	
109	⚠ 8-451-504-61	DEFLECTION YOKE (Y29RSC-S2)	
110	8-453-011-11	NA299-M	
111	1-452-896-11	COIL, NA ROTATION (RT200)	
112	* A-1332-005-A	C BOARD MOUNTED	
113	* A-1342-515-A	VM BOARD MOUNTED	
114	⚠ 1-419-294-11	COIL, DEGAUSSING	
115	* 4-062-970-01	CLIP (29RSN), DGC	
116	1-452-032-00	MAGNET, DISC	
117	1-452-094-00	CIRCULAR DISC MAGNET B	
118	4-051-734-21	PIECE B(120), CONV. CORRECT	
119	* 4-071-297-02	COVER, FRONT	
120	* X-4037-516-1	HOLDER ASSY, CONTROL	

REF. NO.	PART NO.	DESCRIPTION	REMARK
121	4-071-323-01	SPRING, CONE	
122	* 4-071-298-02	BRACKET (TR), CRT	
123	* 4-071-299-02	BRACKET (TL), CRT	
124	* 4-071-300-02	BRACKET (BR), CRT	
125	* 4-071-301-02	BRACKET (BL), CRT	
126	* 4-071-311-02	HOLDER, H3	
127	X-4037-509-1	FRAME SUB ASSY, TOP	
128	X-4037-417-1	FRAME SUB ASSY, BOTTOM	
129	X-4037-587-1	FRAME SUB ASSY, RIGHT	
130	X-4037-419-1	FRAME SUB ASSY, LEFT	
131	* 4-071-306-01	LIGHT, GUIDE	
132	* 4-072-950-01	BRACKET, LIGHT GUIDE	
133	4-073-080-01	FASTEN	
134	* 4-071-310-04	BRACKET, SIDE	
135	* A-1372-729-A	H2 BOARD MOUNTED	
136	4-047-464-01	CATCHER, PUSH	
137	4-068-028-02	BAND, DGC	
138	* 4-074-513-01	CUSHION (L), DGC	
139	4-064-883-03	HOLDER, DGC	
140	* 4-063-935-02	CUSHION (50 X 550), DGC	
141	4-072-956-01	SCREW SPECIAL (DIA.8) (+TP 4 X 9)	

SECTION 8
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF. NO.	PART NO.	DESCRIPTION		REMARK
	* A-1299-238-A	A BOARD COMPLETE		
		*******************		
	* 1-555-110-00	CABLE, PIN		
	4-382-854-11	SCREW (M3X10), P, SW (+)		
		<CAPACITOR>		
C004	1-163-001-11	CERAMIC CHIP	220PF	10.00% 50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10.00% 50V
C006	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V
C007	1-126-933-11	ELECT	100UF	20.00% 16V
C009	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C010	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C012	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V
C013	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C014	1-126-967-11	ELECT	47UF	20.00% 50V
C015	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V
C017	1-163-113-00	CERAMIC CHIP	68PF	5.00% 50V
C018	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C019	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C020	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C021	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V
C028	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
C030	1-126-960-11	ELECT	1UF	20.00% 50V
C031	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V
C032	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C033	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C034	1-163-259-91	CERAMIC CHIP	220PF	5.00% 50V
C101	1-126-964-11	ELECT	10UF	20.00% 50V
C103	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V
C104	1-126-933-11	ELECT	100UF	20.00% 16V
C106	1-163-809-11	CERAMIC CHIP	0.047UF	10.00% 25V
C107	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C108	1-126-933-11	ELECT	100UF	20.00% 16V
C109	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C110	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C112	1-126-933-11	ELECT	100UF	20.00% 16V
C113	1-126-967-11	ELECT	47UF	20.00% 50V
C114	1-126-967-11	ELECT	47UF	20.00% 50V
C301	1-126-767-11	ELECT	1000UF	20.00% 16V
C326	1-126-964-11	ELECT	10UF	20.00% 50V
C1201	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V
C1202	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V
C1203	1-164-505-11	CERAMIC CHIP	2.2UF	16V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C1204	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1205	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1206	1-126-965-11	ELECT	22UF	20.00% 50V
C1207	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V
C1208	1-126-023-11	ELECT	100UF	20.00% 16V
C1209	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C1210	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1211	1-163-989-11	CERAMIC CHIP	0.033UF	10.00% 25V
C1212	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1213	1-163-989-11	CERAMIC CHIP	0.033UF	10.00% 25V
C1214	1-126-055-11	ELECT	470UF	20.00% 50V
C1215	1-126-055-11	ELECT	470UF	20.00% 50V
C1216	1-126-943-11	ELECT	2200UF	20.00% 25V
C1217	1-126-943-11	ELECT	2200UF	20.00% 25V
C1219	1-126-961-11	ELECT	2.2UF	20.00% 50V
C1220	1-126-961-11	ELECT	2.2UF	20.00% 50V
C1221	1-126-933-11	ELECT	100UF	20.00% 16V
C1222	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1223	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1224	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1225	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1229	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1230	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C1241	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1242	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1243	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1244	1-110-617-51	ELECT	2200UF	20.00% 50V
C1245	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1246	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C1247	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1248	1-110-617-51	ELECT	2200UF	20.00% 50V
C1249	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C1251	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C1252	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1253	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1255	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C1256	1-137-194-81	MYLAR	0.47UF	5.00% 50V
C1258	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1259	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1260	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C1262	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C1263	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C1264	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1265	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1267	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C1268	1-137-194-81	MYLAR	0.47UF	5.00% 50V
C1270	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C1271	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V
C1272	1-126-941-11	ELECT	470UF	20.00% 25V
C1273	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1274	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1275	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V
C1276	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V
C1277	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1279	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1281	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1282	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1283	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1284	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1285	1-126-933-11	ELECT	100UF	20.00% 16V
C1286	1-126-933-11	ELECT	100UF	20.00% 16V
C1287	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1288	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1289	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1290	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1291	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1292	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1297	1-136-177-00	MYLAR	1UF	5.00% 50V
C1298	1-136-177-00	MYLAR	1UF	5.00% 50V
C1301	1-126-933-11	ELECT	100UF	20.00% 16V
C1302	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C2200	1-126-964-11	ELECT	10UF	20.00% 50V
C2201	1-126-964-11	ELECT	10UF	20.00% 50V
C2202	1-126-964-11	ELECT	10UF	20.00% 50V
C2203	1-126-963-11	ELECT	4.7UF	20.00% 50V
C2204	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C2205	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C2206	1-126-964-11	ELECT	10UF	20.00% 50V
C2209	1-126-968-11	ELECT	100UF	20.00% 50V
C2600	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C2601	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C2602	1-126-933-11	ELECT	100UF	20.00% 16V
C2603	1-126-933-11	ELECT	100UF	20.00% 16V
C2605	1-126-925-11	ELECT	470UF	20.00% 10V
C2606	1-164-344-11	CERAMIC CHIP	0.068UF	10.00% 25V
C2608	1-126-916-11	ELECT	1000UF	20.00% 6.3V
C2609	1-126-935-11	ELECT	470UF	20.00% 6.3V
C2610	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C2611	1-126-934-11	ELECT	220UF	20.00% 16V
C2612	1-104-665-11	ELECT	100UF	20.00% 25V
C2613	1-104-665-11	ELECT	100UF	20.00% 25V
C2614	1-126-925-11	ELECT	470UF	20.00% 10V
C3302	1-126-964-11	ELECT	10UF	20.00% 50V
C3330	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V
C3331	1-126-933-11	ELECT	100UF	20.00% 16V
C3336	1-126-933-11	ELECT	100UF	20.00% 16V
C3337	1-163-809-11	CERAMIC CHIP	0.047UF	10.00% 25V
C3338	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C3350	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C3351	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C3352	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C3353	1-126-933-11	ELECT	100UF	20.00% 16V
C3354	1-126-967-11	ELECT	47UF	20.00% 50V
C3355	1-126-967-11	ELECT	47UF	20.00% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN1100*	1-560-218-00	PIN, CONNECTOR 7P	
CN1108	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN1116	1-695-915-11	TAB (CONTACT)	
CN1138*	1-564-507-11	PLUG, CONNECTOR 4P	
CN1140	1-793-494-11	CONNECTOR, BOARD TO BOARD 40P	
CN1160*	1-764-333-11	PLUG, CONNECTOR 10P	
CN1162	1-900-903-64	CONNECTOR ASSY 20P	
CN1180	1-793-495-11	CONNECTOR, BOARD TO BOARD 50P	
CN1190*	1-564-510-11	PLUG, CONNECTOR 7P	
CN1193*	1-764-333-11	PLUG, CONNECTOR 10P	
CN1195*	1-564-506-11	PLUG, CONNECTOR 3P	
CN1196*	1-508-797-00	PIN, CONNECTOR 4P	
		<COMPOSITION CIRCUIT BLOCK>	
CP1300	1-251-658-31	SPLITTER RF	
		<DIODE>	
D001	8-719-073-01	DIODE MA111-(K8).SO	
D002	8-719-073-01	DIODE MA111-(K8).SO	
D003	8-719-073-01	DIODE MA111-(K8).SO	
D004	8-719-073-01	DIODE MA111-(K8).SO	
D005	8-719-073-01	DIODE MA111-(K8).SO	
D006	8-719-073-01	DIODE MA111-(K8).SO	
D007	8-719-158-18	DIODE RD5.6SB3	
D013	8-719-158-18	DIODE RD5.6SB3	
D014	8-719-073-01	DIODE MA111-(K8).SO	
D300	8-719-073-01	DIODE MA111-(K8).SO	
D301	8-719-073-01	DIODE MA111-(K8).SO	
D302	8-719-073-01	DIODE MA111-(K8).SO	
D317	8-719-073-01	DIODE MA111-(K8).SO	
D1205	8-719-158-35	DIODE RD9.1SB	
D1208	8-719-073-01	DIODE MA111-(K8).SO	
D1209	8-719-073-01	DIODE MA111-(K8).SO	
D2200	8-719-158-35	DIODE RD9.1SB	
D2201	8-719-158-35	DIODE RD9.1SB	
D2600	8-719-500-70	DIODE D5S4M	
		<FERRITE BEAD>	
FB001	1-414-233-22	INDUCTOR CHIP 0UH	
FB002	1-414-233-22	INDUCTOR CHIP 0UH	
FB003	1-414-233-22	INDUCTOR CHIP 0UH	
FB004	1-414-233-22	INDUCTOR CHIP 0UH	
FB005	1-414-233-22	INDUCTOR CHIP 0UH	
FB006	1-414-233-22	INDUCTOR CHIP 0UH	
FB007	1-414-233-22	INDUCTOR CHIP 0UH	
FB008	1-414-233-22	INDUCTOR CHIP 0UH	
FB1205	1-410-397-21	FERRITE 1.1UH	
FB1206	1-410-397-21	FERRITE 1.1UH	
FB1207	1-410-397-21	FERRITE 1.1UH	
FB1208	1-410-397-21	FERRITE 1.1UH	
FB1300	1-216-295-91	SHORT 0	

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REF. NO.	PART NO.	DESCRIPTION		REMARK
		<FILTER>		
FL001	1-236-071-11	ENCAPSULATED COMPONENT		
		<IC>		
IC001	8-752-913-12	IC CXP750096-019Q		
IC002	8-759-042-02	IC S-80743AL-A7		
IC003	8-759-527-76	IC M24C08-MN6T		
IC004	8-759-575-71	IC M24C04-WMN6T		
IC1201	8-759-273-12	IC TDA7315D013TR		
IC1203	8-759-553-45	IC TDA7481		
IC1204	8-759-553-45	IC TDA7481		
IC1205	8-759-100-96	IC µPC4558G2		
IC2200	8-759-745-64	IC NJM4560M		
IC2600	8-759-394-36	IC BA09T		
IC2601	8-759-450-47	IC BA05T		
IC2603	8-759-640-19	IC PQ1CG2032FZ		
IC2604	8-759-644-37	IC PQ5EV3		
		<CHIP CONDUCTOR>		
JR001	1-216-295-91	SHORT	0	
JR002	1-216-295-91	SHORT	0	
JR107	1-216-295-91	SHORT	0	
JR111	1-216-295-91	SHORT	0	
JR2601	1-216-295-91	SHORT	0	
		<COIL>		
L001	1-414-856-11	INDUCTOR	10UH	
L002	1-414-856-11	INDUCTOR	10UH	
L003	1-414-751-11	INDUCTOR	1UH	
L005	1-414-856-11	INDUCTOR	10UH	
L101	1-414-856-11	INDUCTOR	10UH	
L102	1-414-856-11	INDUCTOR	10UH	
L103	1-414-856-11	INDUCTOR	10UH	
L104	1-414-856-11	INDUCTOR	10UH	
L105	1-414-856-11	INDUCTOR	10UH	
L1201	1-414-187-11	INDUCTOR	47UH	
L1202	1-416-857-11	INDUCTOR	65UH	
L1203	1-416-857-11	INDUCTOR	65UH	
L1204	1-416-966-11	INDUCTOR	30UH	
L1205	1-416-966-11	INDUCTOR	30UH	
L1300	1-414-856-11	INDUCTOR	10UH	
L2600	1-419-249-11	INDUCTOR	15UH	
L2601	1-419-249-11	INDUCTOR	15UH	
L2602	1-412-525-31	INDUCTOR	10UH	
L2603	1-412-525-31	INDUCTOR	10UH	
L3302	1-414-856-11	INDUCTOR	10UH	
L3303	1-414-856-11	INDUCTOR	10UH	
L3304	1-414-856-11	INDUCTOR	10UH	
L3305	1-414-856-11	INDUCTOR	10UH	
L3306	1-414-856-11	INDUCTOR	10UH	
		<IC LINK>		
PS1201	1-532-686-21	LINK, IC 2.7A/150V		
PS1202	1-532-686-21	LINK, IC 2.7A/150V		

REF. NO.	PART NO.	DESCRIPTION			REMARK
PS1203	1-532-686-21	LINK, IC 2.7A/150V			
PS1204	1-532-686-21	LINK, IC 2.7A/150V			
		<TRANSISTOR>			
Q001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q002	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q003	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q004	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q005	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q006	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q007	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1205	1-801-806-11	TRANSISTOR DTC144EKA			
Q1206	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1209	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1210	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1211	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q2200	1-801-806-11	TRANSISTOR DTC144EKA			
Q2201	1-801-806-11	TRANSISTOR DTC144EKA			
Q3300	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
		<RESISTOR>			
R001	1-216-033-00	RES-CHIP	220	5%	1/10W
R002	1-216-033-00	RES-CHIP	220	5%	1/10W
R003	1-216-049-91	RES-CHIP	1K	5%	1/10W
R004	1-216-295-91	SHORT	0		
R005	1-216-295-91	SHORT	0		
R006	1-216-033-00	RES-CHIP	220	5%	1/10W
R007	1-216-033-00	RES-CHIP	220	5%	1/10W
R008	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R009	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R010	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R011	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R012	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R013	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R014	1-216-025-91	RES-CHIP	100	5%	1/10W
R015	1-216-025-91	RES-CHIP	100	5%	1/10W
R016	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R017	1-216-049-91	RES-CHIP	1K	5%	1/10W
R018	1-216-045-00	RES-CHIP	680	5%	1/10W
R019	1-216-049-91	RES-CHIP	1K	5%	1/10W
R020	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R021	1-216-295-91	SHORT	0		
R022	1-216-033-00	RES-CHIP	220	5%	1/10W
R023	1-216-025-91	RES-CHIP	100	5%	1/10W
R024	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R025	1-216-033-00	RES-CHIP	220	5%	1/10W
R026	1-216-033-00	RES-CHIP	220	5%	1/10W
R027	1-216-049-91	RES-CHIP	1K	5%	1/10W
R028	1-216-049-91	RES-CHIP	1K	5%	1/10W
R029	1-216-049-91	RES-CHIP	1K	5%	1/10W
R030	1-216-025-91	RES-CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R031	1-216-033-00	RES-CHIP	220	5%	1/10W
R032	1-216-049-91	RES-CHIP	1K	5%	1/10W
R033	1-216-033-00	RES-CHIP	220	5%	1/10W
R034	1-216-295-91	SHORT	0		
R035	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R036	1-216-083-00	RES-CHIP	27K	5%	1/10W
R037	1-216-083-00	RES-CHIP	27K	5%	1/10W
R038	1-216-045-00	RES-CHIP	680	5%	1/10W
R039	1-216-025-91	RES-CHIP	100	5%	1/10W
R040	1-216-033-00	RES-CHIP	220	5%	1/10W
R041	1-216-025-91	RES-CHIP	100	5%	1/10W
R042	1-216-295-91	SHORT	0		
R043	1-216-025-91	RES-CHIP	100	5%	1/10W
R044	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R045	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R046	1-216-033-00	RES-CHIP	220	5%	1/10W
R047	1-216-033-00	RES-CHIP	220	5%	1/10W
R048	1-216-073-00	RES-CHIP	10K	5%	1/10W
R049	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R050	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R051	1-216-049-91	RES-CHIP	1K	5%	1/10W
R052	1-216-049-91	RES-CHIP	1K	5%	1/10W
R053	1-216-049-91	RES-CHIP	1K	5%	1/10W
R054	1-216-033-00	RES-CHIP	220	5%	1/10W
R055	1-216-295-91	SHORT	0		
R056	1-216-295-91	SHORT	0		
R057	1-216-295-91	SHORT	0		
R058	1-216-295-91	SHORT	0		
R059	1-216-033-00	RES-CHIP	220	5%	1/10W
R060	1-216-033-00	RES-CHIP	220	5%	1/10W
R061	1-216-025-91	RES-CHIP	100	5%	1/10W
R062	1-216-049-91	RES-CHIP	1K	5%	1/10W
R063	1-216-025-91	RES-CHIP	100	5%	1/10W
R064	1-216-025-91	RES-CHIP	100	5%	1/10W
R065	1-216-045-00	RES-CHIP	680	5%	1/10W
R066	1-216-049-91	RES-CHIP	1K	5%	1/10W
R067	1-216-073-00	RES-CHIP	10K	5%	1/10W
R068	1-216-073-00	RES-CHIP	10K	5%	1/10W
R069	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R070	1-216-033-00	RES-CHIP	220	5%	1/10W
R071	1-216-025-91	RES-CHIP	100	5%	1/10W
R072	1-216-025-91	RES-CHIP	100	5%	1/10W
R073	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R074	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R075	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R076	1-216-295-91	SHORT	0		
R077	1-216-025-91	RES-CHIP	100	5%	1/10W
R078	1-216-295-91	SHORT	0		
R079	1-216-025-91	RES-CHIP	100	5%	1/10W
R080	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R081	1-216-025-91	RES-CHIP	100	5%	1/10W
R082	1-216-041-00	RES-CHIP	470	5%	1/10W
R083	1-216-049-91	RES-CHIP	1K	5%	1/10W
R084	1-216-049-91	RES-CHIP	1K	5%	1/10W
R085	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R086	1-216-073-00	RES-CHIP	10K	5%	1/10W
R087	1-216-033-00	RES-CHIP	220	5%	1/10W
R088	1-216-049-91	RES-CHIP	1K	5%	1/10W
R089	1-216-049-91	RES-CHIP	1K	5%	1/10W
R090	1-216-295-91	SHORT	0		
R091	1-216-295-91	SHORT	0		
R092	1-216-033-00	RES-CHIP	220	5%	1/10W
R093	1-216-073-00	RES-CHIP	10K	5%	1/10W
R094	1-216-073-00	RES-CHIP	10K	5%	1/10W
R095	1-216-049-91	RES-CHIP	1K	5%	1/10W
R096	1-216-049-91	RES-CHIP	1K	5%	1/10W
R097	1-216-025-91	RES-CHIP	100	5%	1/10W
R098	1-216-025-91	RES-CHIP	100	5%	1/10W
R099	1-216-025-91	RES-CHIP	100	5%	1/10W
R100	1-216-025-91	RES-CHIP	100	5%	1/10W
R104	1-216-025-91	RES-CHIP	100	5%	1/10W
R105	1-216-295-91	SHORT	0		
R106	1-216-049-91	RES-CHIP	1K	5%	1/10W
R107	1-247-855-31	CARBON	10K	5%	1/4W
R108	1-247-847-31	CARBON	4.7K	5%	1/4W
R109	1-216-041-00	RES-CHIP	470	5%	1/10W
R110	1-216-043-91	RES-CHIP	560	5%	1/10W
R111	1-216-025-91	RES-CHIP	100	5%	1/10W
R112	1-216-025-91	RES-CHIP	100	5%	1/10W
R114	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R116	1-216-025-91	RES-CHIP	100	5%	1/10W
R117	1-216-025-91	RES-CHIP	100	5%	1/10W
R118	1-216-025-91	RES-CHIP	100	5%	1/10W
R301	1-216-113-00	RES-CHIP	470K	5%	1/10W
R302	1-216-089-91	RES-CHIP	47K	5%	1/10W
R303	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1201	1-216-033-00	RES-CHIP	220	5%	1/10W
R1202	1-216-033-00	RES-CHIP	220	5%	1/10W
R1203	1-216-079-00	RES-CHIP	18K	5%	1/10W
R1204	1-216-079-00	RES-CHIP	18K	5%	1/10W
R1205	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1206	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1207	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1208	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1236	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R1237	1-216-085-00	RES-CHIP	33K	5%	1/10W
R1238	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1239	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1240	1-216-085-00	RES-CHIP	33K	5%	1/10W
R1241	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1242	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1244	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1246	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R1247	1-216-085-00	RES-CHIP	33K	5%	1/10W
R1248	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1249	1-216-025-91	RES-CHIP	100	5%	1/10W
R1250	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1252	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1253	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1254	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1255	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1256	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1257	1-216-025-91	RES-CHIP	100	5%	1/10W
R1258	1-216-075-00	RES-CHIP	12K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R1259	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1260	1-216-037-00	RES-CHIP	330	5%	1/10W
R1261	1-216-037-00	RES-CHIP	330	5%	1/10W
R1264	1-216-041-00	RES-CHIP	470	5%	1/10W
R1265	1-216-041-00	RES-CHIP	470	5%	1/10W
R1266	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1267	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1269	1-216-025-91	RES-CHIP	100	5%	1/10W
R1270	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1271	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1272	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1273	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1275	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1276	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1277	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1280	1-216-037-00	RES-CHIP	330	5%	1/10W
R1281	1-216-037-00	RES-CHIP	330	5%	1/10W
R1283	1-216-295-91	SHORT	0		
R1284	1-216-295-91	SHORT	0		
R1286	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1287	1-216-037-00	RES-CHIP	330	5%	1/10W
R1288	1-216-037-00	RES-CHIP	330	5%	1/10W
R1289	1-216-037-00	RES-CHIP	330	5%	1/10W
R1290	1-216-037-00	RES-CHIP	330	5%	1/10W
R2200	1-216-021-00	RES-CHIP	68	5%	1/10W
R2201	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2202	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2203	1-216-021-00	RES-CHIP	68	5%	1/10W
R2204	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2205	1-216-097-91	RES-CHIP	100K	5%	1/10W
R2206	1-216-117-00	RES-CHIP	680K	5%	1/10W
R2207	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R2208	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2209	1-216-117-00	RES-CHIP	680K	5%	1/10W
R2210	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2211	1-216-097-91	RES-CHIP	100K	5%	1/10W
R2212	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2213	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2214	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2215	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2217	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2600	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2601	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R2602	1-208-781-11	METAL CHIP	910	0.5%	1/10W
R2603	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R2604	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R3300	1-216-043-91	RES-CHIP	560	5%	1/10W
R3320	1-216-073-00	RES-CHIP	10K	5%	1/10W
R3323	1-216-025-91	RES-CHIP	100	5%	1/10W
R3334	1-216-025-91	RES-CHIP	100	5%	1/10W
R3374	1-216-295-91	SHORT	0		
		<VARIABLE RESISTOR>			
RV3300	1-238-597-11	RES, ADJ, CARBON 1K			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<TUNER>			
TU101	8-598-475-01	FSS TUNER BTF-WL411			
TU3301	8-598-501-00	TUNER, FSS BTF-FA402			
		<CRYSTAL>			
X001	1-567-928-11	VIBLATOR, CERAMIC			

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* A-1299-092-A A1 BOARD COMPLETE
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REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CAPACITOR>			
C8103	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8104	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8105	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8106	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8107	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8108	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8109	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8110	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8111	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8112	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V
C8116	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C8117	1-126-382-11	ELECT	100UF	20.00%	16V
C8118	1-127-532-11	ELECT	47UF	20.00%	6.3V
C8119	1-126-795-11	ELECT	10UF	20.00%	25V
C8120	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8121	1-125-838-91	CERAMIC CHIP	2.2UF	10%	6.3V
C8122	1-125-838-91	CERAMIC CHIP	2.2UF	10%	6.3V
C8123	1-127-532-11	ELECT	47UF	20.00%	6.3V
C8124	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8125	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8126	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8127	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C8128	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C8129	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8130	1-126-382-11	ELECT	100UF	20.00%	16V
C8131	1-126-382-11	ELECT	100UF	20.00%	16V
C8132	1-125-838-91	CERAMIC CHIP	2.2UF	10%	6.3V
C8133	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8134	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8135	1-126-382-11	ELECT	100UF	20.00%	16V
C8136	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8137	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8138	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8139	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8140	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8141	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8142	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C8143	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8144	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8145	1-163-233-11	CERAMIC CHIP	18PF	5.00%	50V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C8146	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8147	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8150	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8155	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8161	1-126-382-11	ELECT	100UF	20.00% 16V
C8162	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C8163	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8166	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8167	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8168	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8197	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8198	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8199	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8200	1-216-295-91	SHORT	0	
C8201	1-216-295-91	SHORT	0	
C8202	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8203	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8204	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8205	1-163-253-11	CERAMIC CHIP	120PF	5.00% 50V
C8206	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C8207	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C8208	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C8209	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C8210	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C8211	1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V
C8212	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C8213	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V
C8218	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION
CN8100	1-793-867-11	PIN, CONNECTOR (PC BORAD) 10P
CN8101	1-793-867-11	PIN, CONNECTOR (PC BORAD) 10P

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	
D8101	8-719-073-01	DIODE MA111-(K8).SO	
D8102	1-216-295-91	SHORT	0

<FERRITE BEAD>

REF. NO.	PART NO.	DESCRIPTION	
FB8100	1-216-295-91	SHORT	0
FB8101	1-216-295-91	SHORT	0
FB8101	1-414-598-11	INDUCTOR CHIP	0UH
FB8102	1-216-295-91	SHORT	0
FB8103	1-216-295-91	SHORT	0
FB8104	1-414-598-11	INDUCTOR CHIP	0UH
FB8105	1-216-295-91	SHORT	0
FB8106	1-414-598-11	INDUCTOR CHIP	0UH
FB8108	1-414-598-11	INDUCTOR CHIP	0UH
FB8109	1-414-598-11	INDUCTOR CHIP	0UH
FB8110	1-414-598-11	INDUCTOR CHIP	0UH
FB8111	1-414-598-11	INDUCTOR CHIP	0UH
FB8112	1-414-598-11	INDUCTOR CHIP	0UH
FB8113	1-414-598-11	INDUCTOR CHIP	0UH
FB8114	1-414-598-11	INDUCTOR CHIP	0UH
FB8115	1-414-598-11	INDUCTOR CHIP	0UH
FB8116	1-414-598-11	INDUCTOR CHIP	0UH
FB8117	1-414-598-11	INDUCTOR CHIP	0UH
FB8118	1-414-598-11	INDUCTOR CHIP	0UH
FB8119	1-414-598-11	INDUCTOR CHIP	0UH
FB8120	1-414-598-11	INDUCTOR CHIP	0UH
FB8121	1-414-598-11	INDUCTOR CHIP	0UH

<FILTER>

REF. NO.	PART NO.	DESCRIPTION
FL8100	1-234-177-21	FILTER, CHIP EMI
FL8101	1-234-177-21	FILTER, CHIP EMI
FL8102	1-234-177-21	FILTER, CHIP EMI

<IC>

REF. NO.	PART NO.	DESCRIPTION
IC8102	8-759-576-72	IC LF50CDT-TR
IC8103	8-759-579-68	IC AK4524
IC8104	8-759-542-87	IC S-80827ANUP-EDQ-T2
IC8105	8-759-651-20	IC TC9446F-002
IC8106	8-759-242-70	IC TC7WU04F
IC8107	8-759-459-69	IC S-80743AN-D7

<JACK>

REF. NO.	PART NO.	DESCRIPTION
J8106	1-793-787-11	JACK BLOCK, PIN 1P

<CHIP CONDUCTOR>

REF. NO.	PART NO.	DESCRIPTION	
JR8102	1-216-295-91	SHORT	0
JR8103	1-216-295-91	SHORT	0

<COIL>

REF. NO.	PART NO.	DESCRIPTION	
L8100	1-412-026-11	INDUCTOR CHIP	1UH
L8101	1-412-026-11	INDUCTOR CHIP	1UH
L8102	1-412-026-11	INDUCTOR CHIP	1UH
L8103	1-412-026-11	INDUCTOR CHIP	1UH
L8104	1-412-026-11	INDUCTOR CHIP	1UH
L8105	1-412-026-11	INDUCTOR CHIP	1UH

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8101	1-216-022-00	RES-CHIP	75	5%	1/10W
R8101	1-216-295-91	SHORT	0		
R8102	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8103	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8107	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8120	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8121	1-216-025-91	RES-CHIP	100	5%	1/10W
R8122	1-216-025-91	RES-CHIP	100	5%	1/10W
R8123	1-216-009-91	RES-CHIP	22	5%	1/10W
R8124	1-216-009-91	RES-CHIP	22	5%	1/10W
R8125	1-216-009-91	RES-CHIP	22	5%	1/10W
R8126	1-216-009-91	RES-CHIP	22	5%	1/10W
R8127	1-216-025-91	RES-CHIP	100	5%	1/10W
R8128	1-216-025-91	RES-CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R8129	1-216-009-91	RES-CHIP	22	5%	1/10W
R8131	1-216-295-91	SHORT	0		
R8133	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R8134	1-216-295-91	SHORT	0		
R8135	1-216-295-91	SHORT	0		
R8137	1-216-295-91	SHORT	0		
R8138	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8139	1-216-037-00	RES-CHIP	330	5%	1/10W
R8140	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8141	1-216-295-91	SHORT	0		
R8143	1-216-295-91	SHORT	0		
R8144	1-216-025-91	RES-CHIP	100	5%	1/10W
R8145	1-216-033-00	RES-CHIP	220	5%	1/10W
R8146	1-216-033-00	RES-CHIP	220	5%	1/10W
R8147	1-216-295-91	SHORT	0		
R8148	1-216-295-91	SHORT	0		
R8149	1-216-037-00	RES-CHIP	330	5%	1/10W
R8155	1-216-295-91	SHORT	0		
R8157	1-216-037-00	RES-CHIP	330	5%	1/10W
R8158	1-216-037-00	RES-CHIP	330	5%	1/10W
R8161	1-216-025-91	RES-CHIP	100	5%	1/10W
R8168	1-216-025-91	RES-CHIP	100	5%	1/10W
R8169	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8170	1-216-121-91	RES-CHIP	1M	5%	1/10W
R8171	1-216-025-91	RES-CHIP	100	5%	1/10W
R8172	1-216-025-91	RES-CHIP	100	5%	1/10W
R8173	1-216-025-91	RES-CHIP	100	5%	1/10W
R8200	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8201	1-216-025-91	RES-CHIP	100	5%	1/10W
R8202	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8203	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8204	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8205	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8206	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8207	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8208	1-216-295-91	SHORT	0		
R8209	1-216-295-91	SHORT	0		

<CRYSTAL>

REF. NO.	PART NO.	DESCRIPTION
X8102	1-781-041-11	VIBRATOR, CRYSTAL

****

A-1136-115-A B3 BOARD COMPLETE
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<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C302	1-117-136-11	ELECT CHIP	10UF	20.00%	6.3V
C305	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C306	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C309	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C310	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C312	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C313	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C314	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C315	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C316	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C317	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C318	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C319	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C320	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C321	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C323	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C324	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C325	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C327	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C330	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C331	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C332	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C333	1-216-295-91	SHORT	0		
C337	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C338	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C339	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C340	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C341	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C346	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C347	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C349	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C350	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
C353	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C354	1-117-136-11	ELECT CHIP	10UF	20.00%	6.3V
C355	1-117-136-11	ELECT CHIP	10UF	20.00%	6.3V
C361	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C362	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C363	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C501	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C502	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C503	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C505	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C507	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C509	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C510	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C511	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C512	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C514	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C515	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C516	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C517	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C518	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C519	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C520	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C521	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C522	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C523	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C524	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C525	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C526	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C527	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C528	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C530	1-216-295-91	SHORT	0		

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C532	1-216-295-91	SHORT	0	
C534	1-216-295-91	SHORT	0	
C538	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C539	1-126-204-11	ELECT CHIP	47UF	20.00% 16V
C540	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C542	1-126-204-11	ELECT CHIP	47UF	20.00% 16V
C543	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C545	1-126-396-11	ELECT CHIP	47UF	20.00% 16V
C546	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C548	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C549	1-126-204-11	ELECT CHIP	47UF	20.00% 16V
C550	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C551	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C554	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C555	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C556	1-126-392-11	ELECT CHIP	100UF	20.00% 6.3V
C557	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C559	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C560	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C601	1-126-394-11	ELECT CHIP	10UF	20.00% 16V
C602	1-126-394-11	ELECT CHIP	10UF	20.00% 16V
C603	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C604	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C605	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C606	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C607	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C608	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C609	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C610	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C611	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C612	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C613	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C614	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C615	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C616	1-126-396-11	ELECT CHIP	47UF	20.00% 16V
C617	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C618	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C619	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C620	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C621	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C622	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C623	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C624	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C625	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C626	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C627	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C628	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C629	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C630	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C631	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C632	1-126-206-11	ELECT CHIP	100UF	20.00% 6.3V
C633	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C634	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C635	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C636	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C637	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C638	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C639	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C640	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C642	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C643	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C644	1-126-398-11	ELECT CHIP	4.7UF	20.00% 35V
C645	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C801	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C803	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C804	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C806	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C807	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C808	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C809	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C810	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C812	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C813	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C814	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C815	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C816	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C817	1-163-229-11	CERAMIC CHIP	12PF	5.00% 50V
C818	1-163-229-11	CERAMIC CHIP	12PF	5.00% 50V
C819	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C820	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C821	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C822	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C823	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C824	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C825	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C826	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C827	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C829	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C834	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C835	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C837	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C839	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C840	1-126-206-11	ELECT CHIP	100UF	20.00% 6.3V
C841	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C842	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C843	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C844	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C848	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C849	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C850	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C851	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C852	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C853	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00% 50V
C854	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C901	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C902	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C903	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C904	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C905	1-109-982-11	CERAMIC CHIP	1UF	10.00% 10V
C906	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C907	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C908	1-163-031-11	CERAMIC CHIP	0.01UF	50V
C909	1-126-396-11	ELECT CHIP	47UF	20.00% 16V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C910	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C913	1-163-031-11	CERAMIC CHIP	0.01UF	50V
C914	1-126-394-11	ELECT CHIP	10UF	20.00% 16V
C950	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C954	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
		<CONNECTOR>		
CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		
		<DIODE>		
D301	8-719-041-97	DIODE MA113-(TX)		
D302	8-719-041-97	DIODE MA113-(TX)		
D501	8-719-422-12	DIODE MA8039		
D601	8-719-073-01	DIODE MA111-(K8)-SO		
		<FERRITE BEAD>		
FB501	1-414-813-11	FERRITE	0UH	
FB502	1-414-813-11	FERRITE	0UH	
FB503	1-414-813-11	FERRITE	0UH	
FB504	1-414-813-11	FERRITE	0UH	
FB601	1-414-553-11	FERRITE	0UH	
FB801	1-414-553-11	FERRITE	0UH	
FB802	1-414-553-11	FERRITE	0UH	
		<FILTER>		
FL304	1-234-177-21	FILTER, CHIP EMI		
FL305	1-234-177-21	FILTER, CHIP EMI		
FL306	1-239-558-11	FILTER, CHIP EMI		
FL501	1-233-877-11	FILTER, LOW PASS		
FL502	1-233-504-21	FILTER, LOW PASS		
FL503	1-233-504-21	FILTER, LOW PASS		
FL504	1-234-177-21	FILTER, CHIP EMI		
FL505	1-234-177-21	FILTER, CHIP EMI		
FL506	1-234-177-21	FILTER, CHIP EMI		
FL508	1-234-177-21	FILTER, CHIP EMI		
FL509	1-234-177-21	FILTER, CHIP EMI		
FL510	1-234-177-21	FILTER, CHIP EMI		
FL511	1-234-177-21	FILTER, CHIP EMI		
FL512	1-234-177-21	FILTER, CHIP EMI		
FL601	1-234-177-21	FILTER, CHIP EMI		
FL602	1-234-177-21	FILTER, CHIP EMI		
FL603	1-234-177-21	FILTER, CHIP EMI		
FL606	1-239-560-11	FILTER, CHIP EMI		
FL801	1-234-177-21	FILTER, CHIP EMI		
FL802	1-234-177-21	FILTER, CHIP EMI		
FL803	1-234-177-21	FILTER, CHIP EMI		
FL804	1-234-177-21	FILTER, CHIP EMI		
FL805	1-234-177-21	FILTER, CHIP EMI		
FL806	1-234-177-21	FILTER, CHIP EMI		
FL807	1-234-177-21	FILTER, CHIP EMI		
FL808	1-234-177-21	FILTER, CHIP EMI		
FL810	1-234-177-21	FILTER, CHIP EMI		
FL901	1-233-878-11	FILTER, LOW PASS		
FL902	1-233-876-11	FILTER, LOW PASS		
FL903	1-233-876-11	FILTER, LOW PASS		
FL904	1-234-177-21	FILTER, CHIP EMI		
FL905	1-234-177-21	FILTER, CHIP EMI		
FL906	1-234-177-21	FILTER, CHIP EMI		
FL907	1-234-177-21	FILTER, CHIP EMI		
		<IC>		
IC302	8-752-388-98	IC CXD2303AQ		
IC303	8-752-088-27	IC CXA3266Q-T6		
IC309	8-759-640-16	IC TC7SET04F(TE85R)		
IC311	8-759-708-05	IC NJM78LO5A		
IC501	8-759-447-90	IC TLC5733AIPM		
IC504	8-759-430-32	IC TLC2933IPWR		
IC505	8-759-640-16	IC TC7SET04F(TE85R)		
IC506	8-759-640-16	IC TC7SET04F(TE85R)		
IC601	8-752-398-47	IC CXD2090Q		
IC602	8-759-567-37	IC MB81F161622B-80FN		
IC603 ⚠	8-759-295-09	IC TLC2932IPW		
IC604	8-752-072-94	IC CXA1875AM-T4		
IC801	8-759-592-40	IC CXD9509Q		
IC802	8-759-595-53	IC MB81F643242B-10FN		
IC803	8-759-460-29	IC PST9120NL		
IC901	8-752-367-59	IC CXD2309Q		
IC902	8-759-677-72	IC MB94918RPF-G-121-BND		
IC903	8-759-575-71	IC M24C04-WMN6T		
IC904	8-759-349-11	IC PST9145NL		
		<COIL>		
L302	1-412-029-11	INDUCTOR CHIP	10UH	
L303	1-412-029-11	INDUCTOR CHIP	10UH	
L501	1-412-026-11	INDUCTOR CHIP	1UH	
L502	1-412-026-11	INDUCTOR CHIP	1UH	
L503	1-412-026-11	INDUCTOR CHIP	1UH	
L504	1-412-026-11	INDUCTOR CHIP	1UH	
L505	1-412-029-11	INDUCTOR CHIP	10UH	
L506	1-412-026-11	INDUCTOR CHIP	1UH	
L508	1-412-029-11	INDUCTOR CHIP	10UH	
L509	1-412-029-11	INDUCTOR CHIP	10UH	
L511	1-412-026-11	INDUCTOR CHIP	1UH	
L512	1-412-026-11	INDUCTOR CHIP	1UH	
L604	1-412-029-11	INDUCTOR CHIP	10UH	
L605	1-412-029-11	INDUCTOR CHIP	10UH	
		<TRANSISTOR>		
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q511	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q516	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q517	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q518	8-729-216-22	TRANSISTOR 2SA1162-G		
Q519	1-801-806-11	TRANSISTOR DTC144EKA		

REF. NO.	PART NO.	DESCRIPTION			REMARK
Q520	1-801-806-11	TRANSISTOR DTC144EKA			
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q901	8-729-216-22	TRANSISTOR 2SA1162-G			
Q902	8-729-216-22	TRANSISTOR 2SA1162-G			
Q903	8-729-216-22	TRANSISTOR 2SA1162-G			
Q904	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q905	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q906	1-801-806-11	TRANSISTOR DTC144EKA			
Q907	8-729-216-22	TRANSISTOR 2SA1162-G			
Q908	8-729-216-22	TRANSISTOR 2SA1162-G			
Q909	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R302	1-216-013-00	RES-CHIP	33	5%	1/10W
R303	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R305	1-216-049-91	RES-CHIP	1K	5%	1/10W
R306	1-216-658-11	METAL CHIP	2K	0.5%	1/10W
R309	1-216-009-91	RES-CHIP	22	5%	1/10W
R310	1-216-009-91	RES-CHIP	22	5%	1/10W
R311	1-216-009-91	RES-CHIP	22	5%	1/10W
R313	1-216-009-91	RES-CHIP	22	5%	1/10W
R316	1-216-009-91	RES-CHIP	22	5%	1/10W
R318	1-216-009-91	RES-CHIP	22	5%	1/10W
R319	1-216-049-91	RES-CHIP	1K	5%	1/10W
R321	1-216-009-91	RES-CHIP	22	5%	1/10W
R323	1-216-009-91	RES-CHIP	22	5%	1/10W
R324	1-216-009-91	RES-CHIP	22	5%	1/10W
R325	1-216-073-00	RES-CHIP	10K	5%	1/10W
R328	1-216-025-91	RES-CHIP	100	5%	1/10W
R333	1-216-295-91	SHORT	0		
R335	1-216-013-00	RES-CHIP	33	5%	1/10W
R336	1-216-013-00	RES-CHIP	33	5%	1/10W
R337	1-216-097-91	RES-CHIP	100K	5%	1/10W
R338	1-216-295-91	SHORT	0		
R339	1-216-295-91	SHORT	0		
R347	1-216-295-91	SHORT	0		
R350	1-216-295-91	SHORT	0		
R501	1-216-025-91	RES-CHIP	100	5%	1/10W
R502	1-216-025-91	RES-CHIP	100	5%	1/10W
R503	1-216-295-91	SHORT	0		
R504	1-216-295-91	SHORT	0		
R505	1-216-295-91	SHORT	0		
R506	1-216-009-91	RES-CHIP	22	5%	1/10W
R507	1-216-009-91	RES-CHIP	22	5%	1/10W
R508	1-216-025-91	RES-CHIP	100	5%	1/10W
R509	1-216-025-91	RES-CHIP	100	5%	1/10W
R510	1-216-043-91	RES-CHIP	560	5%	1/10W
R511	1-216-043-91	RES-CHIP	560	5%	1/10W
R512	1-216-043-91	RES-CHIP	560	5%	1/10W
R513	1-216-043-91	RES-CHIP	560	5%	1/10W
R514	1-216-043-91	RES-CHIP	560	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R515	1-216-043-91	RES-CHIP	560	5%	1/10W
R516	1-216-049-91	RES-CHIP	1K	5%	1/10W
R517	1-216-049-91	RES-CHIP	1K	5%	1/10W
R518	1-216-295-91	SHORT	0		
R520	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R521	1-216-295-91	SHORT	0		
R523	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R524	1-216-295-91	SHORT	0		
R526	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R528	1-216-037-00	RES-CHIP	330	5%	1/10W
R529	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R530	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R531	1-216-031-00	RES-CHIP	180	5%	1/10W
R532	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R533	1-216-031-00	RES-CHIP	180	5%	1/10W
R536	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R537	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R540	1-216-049-91	RES-CHIP	1K	5%	1/10W
R548	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R549	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R550	1-216-625-11	METAL CHIP	82	0.5%	1/10W
R551	1-216-625-11	METAL CHIP	82	0.5%	1/10W
R552	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R553	1-216-295-91	SHORT	0		
R554	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R555	1-216-077-91	RES-CHIP	15K	5%	1/10W
R557	1-216-049-91	RES-CHIP	1K	5%	1/10W
R558	1-216-025-91	RES-CHIP	100	5%	1/10W
R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
R560	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R561	1-216-043-91	RES-CHIP	560	5%	1/10W
R562	1-216-043-91	RES-CHIP	560	5%	1/10W
R563	1-216-043-91	RES-CHIP	560	5%	1/10W
R571	1-216-295-91	SHORT	0		
R572	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R573	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R574	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R575	1-216-625-11	METAL CHIP	82	0.5%	1/10W
R576	1-216-625-11	METAL CHIP	82	0.5%	1/10W
R577	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R578	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R579	1-216-077-91	RES-CHIP	15K	5%	1/10W
R580	1-216-295-91	SHORT	0		
R582	1-216-041-00	RES-CHIP	470	5%	1/10W
R584	1-216-041-00	RES-CHIP	470	5%	1/10W
R594	1-216-041-00	RES-CHIP	470	5%	1/10W
R596	1-216-049-91	RES-CHIP	1K	5%	1/10W
R597	1-216-073-00	RES-CHIP	10K	5%	1/10W
R598	1-216-025-91	RES-CHIP	100	5%	1/10W
R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R601	1-216-073-00	RES-CHIP	10K	5%	1/10W
R602	1-216-073-00	RES-CHIP	10K	5%	1/10W
R603	1-216-073-00	RES-CHIP	10K	5%	1/10W
R604	1-216-033-00	RES-CHIP	220	5%	1/10W
R605	1-216-295-91	SHORT	0		
R608	1-216-295-91	SHORT	0		
R609	1-216-073-00	RES-CHIP	10K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R610	1-216-033-00	RES-CHIP	220	5%	1/10W
R611	1-216-073-00	RES-CHIP	10K	5%	1/10W
R612	1-216-073-00	RES-CHIP	10K	5%	1/10W
R613	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R615	1-216-089-91	RES-CHIP	47K	5%	1/10W
R616	1-216-073-00	RES-CHIP	10K	5%	1/10W
R617	1-216-295-91	SHORT	0		
R619	1-216-073-00	RES-CHIP	10K	5%	1/10W
R621	1-216-295-91	SHORT	0		
R622	1-216-295-91	SHORT	0		
R624	1-216-295-91	SHORT	0		
R625	1-216-295-91	SHORT	0		
R626	1-216-073-00	RES-CHIP	10K	5%	1/10W
R628	1-216-295-91	SHORT	0		
R629	1-216-073-00	RES-CHIP	10K	5%	1/10W
R631	1-216-295-91	SHORT	0		
R634	1-216-295-91	SHORT	0		
R635	1-216-295-91	SHORT	0		
R638	1-216-295-91	SHORT	0		
R639	1-216-017-91	RES-CHIP	47	5%	1/10W
R640	1-216-009-91	RES-CHIP	22	5%	1/10W
R642	1-216-295-91	SHORT	0		
R643	1-216-295-91	SHORT	0		
R645	1-216-295-91	SHORT	0		
R651	1-216-295-91	SHORT	0		
R653	1-216-025-91	RES-CHIP	100	5%	1/10W
R654	1-216-033-00	RES-CHIP	220	5%	1/10W
R655	1-216-295-91	SHORT	0		
R657	1-216-009-91	RES-CHIP	22	5%	1/10W
R658	1-216-049-91	RES-CHIP	1K	5%	1/10W
R659	1-216-025-91	RES-CHIP	100	5%	1/10W
R660	1-216-025-91	RES-CHIP	100	5%	1/10W
R661	1-216-025-91	RES-CHIP	100	5%	1/10W
R664	1-216-009-91	RES-CHIP	22	5%	1/10W
R665	1-216-035-00	RES-CHIP	270	5%	1/10W
R666	1-216-646-11	METAL CHIP	620	0.5%	1/10W
R667	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R668	1-216-009-91	RES-CHIP	22	5%	1/10W
R670	1-216-295-91	SHORT	0		
R671	1-216-073-00	RES-CHIP	10K	5%	1/10W
R672	1-216-073-00	RES-CHIP	10K	5%	1/10W
R673	1-216-073-00	RES-CHIP	10K	5%	1/10W
R674	1-216-073-00	RES-CHIP	10K	5%	1/10W
R675	1-216-073-00	RES-CHIP	10K	5%	1/10W
R676	1-216-073-00	RES-CHIP	10K	5%	1/10W
R677	1-216-073-00	RES-CHIP	10K	5%	1/10W
R678	1-216-073-00	RES-CHIP	10K	5%	1/10W
R679	1-216-073-00	RES-CHIP	10K	5%	1/10W
R680	1-216-073-00	RES-CHIP	10K	5%	1/10W
R681	1-216-073-00	RES-CHIP	10K	5%	1/10W
R682	1-216-073-00	RES-CHIP	10K	5%	1/10W
R683	1-216-073-00	RES-CHIP	10K	5%	1/10W
R684	1-216-073-00	RES-CHIP	10K	5%	1/10W
R685	1-216-073-00	RES-CHIP	10K	5%	1/10W
R686	1-216-073-00	RES-CHIP	10K	5%	1/10W
R687	1-216-295-91	SHORT	0		
R688	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R690	1-216-295-91	SHORT	0		
R691	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-295-91	SHORT	0		
R695	1-216-047-91	RES-CHIP	820	5%	1/10W
R696	1-216-049-91	RES-CHIP	1K	5%	1/10W
R697	1-216-117-00	RES-CHIP	680K	5%	1/10W
R698	1-216-117-00	RES-CHIP	680K	5%	1/10W
R699	1-216-295-91	SHORT	0		
R801	1-216-009-91	RES-CHIP	22	5%	1/10W
R802	1-216-009-91	RES-CHIP	22	5%	1/10W
R804	1-216-073-00	RES-CHIP	10K	5%	1/10W
R806	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R807	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R812	1-216-073-00	RES-CHIP	10K	5%	1/10W
R813	1-216-295-91	SHORT	0		
R814	1-216-073-00	RES-CHIP	10K	5%	1/10W
R815	1-216-073-00	RES-CHIP	10K	5%	1/10W
R816	1-216-073-00	RES-CHIP	10K	5%	1/10W
R817	1-216-613-11	METAL CHIP	27	0.5%	1/10W
R818	1-216-295-91	SHORT	0		
R820	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R822	1-216-295-91	SHORT	0		
R823	1-216-073-00	RES-CHIP	10K	5%	1/10W
R824	1-216-073-00	RES-CHIP	10K	5%	1/10W
R825	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R826	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R827	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R834	1-216-629-11	METAL CHIP	120	0.5%	1/10W
R835	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R836	1-216-611-11	METAL CHIP	22	0.5%	1/10W
R840	1-216-295-91	SHORT	0		
R844	1-216-009-91	RES-CHIP	22	5%	1/10W
R845	1-216-009-91	RES-CHIP	22	5%	1/10W
R846	1-216-009-91	RES-CHIP	22	5%	1/10W
R847	1-216-009-91	RES-CHIP	22	5%	1/10W
R848	1-216-009-91	RES-CHIP	22	5%	1/10W
R849	1-216-009-91	RES-CHIP	22	5%	1/10W
R850	1-216-009-91	RES-CHIP	22	5%	1/10W
R851	1-216-009-91	RES-CHIP	22	5%	1/10W
R852	1-216-009-91	RES-CHIP	22	5%	1/10W
R853	1-216-009-91	RES-CHIP	22	5%	1/10W
R854	1-216-009-91	RES-CHIP	22	5%	1/10W
R855	1-216-009-91	RES-CHIP	22	5%	1/10W
R856	1-216-009-91	RES-CHIP	22	5%	1/10W
R857	1-216-009-91	RES-CHIP	22	5%	1/10W
R858	1-216-009-91	RES-CHIP	22	5%	1/10W
R859	1-216-009-91	RES-CHIP	22	5%	1/10W
R860	1-216-009-91	RES-CHIP	22	5%	1/10W
R861	1-216-009-91	RES-CHIP	22	5%	1/10W
R862	1-216-009-91	RES-CHIP	22	5%	1/10W
R863	1-216-009-91	RES-CHIP	22	5%	1/10W
R864	1-216-009-91	RES-CHIP	22	5%	1/10W
R865	1-216-009-91	RES-CHIP	22	5%	1/10W
R866	1-216-009-91	RES-CHIP	22	5%	1/10W
R867	1-216-009-91	RES-CHIP	22	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R868	1-216-009-91	RES-CHIP	22	5%	1/10W
R869	1-216-009-91	RES-CHIP	22	5%	1/10W
R870	1-216-009-91	RES-CHIP	22	5%	1/10W
R871	1-216-009-91	RES-CHIP	22	5%	1/10W
R872	1-216-009-91	RES-CHIP	22	5%	1/10W
R873	1-216-009-91	RES-CHIP	22	5%	1/10W
R874	1-216-009-91	RES-CHIP	22	5%	1/10W
R875	1-216-009-91	RES-CHIP	22	5%	1/10W
R876	1-216-009-91	RES-CHIP	22	5%	1/10W
R877	1-216-009-91	RES-CHIP	22	5%	1/10W
R878	1-216-009-91	RES-CHIP	22	5%	1/10W
R879	1-216-009-91	RES-CHIP	22	5%	1/10W
R880	1-216-009-91	RES-CHIP	22	5%	1/10W
R881	1-216-009-91	RES-CHIP	22	5%	1/10W
R882	1-216-009-91	RES-CHIP	22	5%	1/10W
R883	1-216-009-91	RES-CHIP	22	5%	1/10W
R884	1-216-009-91	RES-CHIP	22	5%	1/10W
R885	1-216-009-91	RES-CHIP	22	5%	1/10W
R886	1-216-009-91	RES-CHIP	22	5%	1/10W
R887	1-216-009-91	RES-CHIP	22	5%	1/10W
R888	1-216-009-91	RES-CHIP	22	5%	1/10W
R889	1-216-009-91	RES-CHIP	22	5%	1/10W
R890	1-216-009-91	RES-CHIP	22	5%	1/10W
R891	1-216-009-91	RES-CHIP	22	5%	1/10W
R892	1-216-009-91	RES-CHIP	22	5%	1/10W
R893	1-216-009-91	RES-CHIP	22	5%	1/10W
R894	1-216-009-91	RES-CHIP	22	5%	1/10W
R895	1-216-009-91	RES-CHIP	22	5%	1/10W
R896	1-216-009-91	RES-CHIP	22	5%	1/10W
R897	1-216-009-91	RES-CHIP	22	5%	1/10W
R898	1-216-009-91	RES-CHIP	22	5%	1/10W
R899	1-216-073-00	RES-CHIP	10K	5%	1/10W
R901	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R902	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R903	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R904	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R905	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R906	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R907	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R908	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R909	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R910	1-216-049-91	RES-CHIP	1K	5%	1/10W
R911	1-216-049-91	RES-CHIP	1K	5%	1/10W
R912	1-216-049-91	RES-CHIP	1K	5%	1/10W
R914	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R916	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R923	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R926	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R927	1-216-295-91	SHORT	0		
R929	1-216-025-91	RES-CHIP	100	5%	1/10W
R930	1-216-025-91	RES-CHIP	100	5%	1/10W
R931	1-216-041-00	RES-CHIP	470	5%	1/10W
R933	1-216-025-91	RES-CHIP	100	5%	1/10W
R934	1-216-025-91	RES-CHIP	100	5%	1/10W
R935	1-216-073-00	RES-CHIP	10K	5%	1/10W
R936	1-216-041-00	RES-CHIP	470	5%	1/10W
R937	1-216-025-91	RES-CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R938	1-216-025-91	RES-CHIP	100	5%	1/10W
R939	1-216-295-91	SHORT	0		
R940	1-216-295-91	SHORT	0		
R941	1-216-295-91	SHORT	0		
R942	1-216-037-00	RES-CHIP	330	5%	1/10W
R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R944	1-216-295-91	SHORT	0		
R945	1-216-295-91	SHORT	0		
R951	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R952	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R953	1-216-295-91	SHORT	0		
R954	1-216-295-91	SHORT	0		
R955	1-216-295-91	SHORT	0		
R956	1-216-089-91	RES-CHIP	47K	5%	1/10W
R957	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R958	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R959	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R960	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R961	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R962	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R979	1-216-295-91	SHORT	0		
R981	1-216-037-00	RES-CHIP	330	5%	1/10W
R982	1-216-037-00	RES-CHIP	330	5%	1/10W
R983	1-216-089-91	RES-CHIP	47K	5%	1/10W
R984	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R985	1-216-113-00	RES-CHIP	470K	5%	1/10W
R986	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R987	1-216-049-91	RES-CHIP	1K	5%	1/10W
R988	1-216-033-00	RES-CHIP	220	5%	1/10W
R989	1-216-081-00	RES-CHIP	22K	5%	1/10W
R990	1-216-113-00	RES-CHIP	470K	5%	1/10W
R991	1-216-295-91	SHORT	0		
R993	1-216-089-91	RES-CHIP	47K	5%	1/10W
R994	1-216-033-00	RES-CHIP	220	5%	1/10W
R995	1-216-033-00	RES-CHIP	220	5%	1/10W
R996	1-216-037-00	RES-CHIP	330	5%	1/10W
R997	1-216-037-00	RES-CHIP	330	5%	1/10W
R998	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2801	1-216-629-11	METAL CHIP	120	0.5%	1/10W
R2802	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R2803	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R2804	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2805	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R2806	1-216-611-11	METAL CHIP	22	0.5%	1/10W
R2809	1-216-295-91	SHORT	0		
R2810	1-216-295-91	SHORT	0		
R2813	1-216-295-91	SHORT	0		
R2815	1-216-295-91	SHORT	0		
R2817	1-216-295-91	SHORT	0		
R2818	1-216-295-91	SHORT	0		
R2820	1-216-295-91	SHORT	0		
R2822	1-216-295-91	SHORT	0		
RB001	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB002	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB003	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB004	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB005	1-239-409-11	NETWORK RESISTOR (CHIP) 47			

B3 BC4

REF. NO.	PART NO.	DESCRIPTION			REMARK
RB006	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB007	1-239-414-11	NETWORK RESISTOR (CHIP) 150			
RB008	1-239-414-11	NETWORK RESISTOR (CHIP) 150			
RB009	1-239-414-11	NETWORK RESISTOR (CHIP) 150			
RB010	1-239-414-11	NETWORK RESISTOR (CHIP) 150			
RB011	1-239-414-11	NETWORK RESISTOR (CHIP) 150			
RB012	1-239-414-11	NETWORK RESISTOR (CHIP) 150			
RB013	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB014	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB015	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB016	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB017	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB018	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB019	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB020	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB021	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB022	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB023	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB024	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB025	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB026	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB027	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB301	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB302	1-239-621-11	NETWORK RESISTOR (CHIP) 22			
RB701	1-239-711-91	NETWORK RESISTOR (CHIP) 0			
RB702	1-239-711-91	NETWORK RESISTOR (CHIP) 0			
RB703	1-239-711-91	NETWORK RESISTOR (CHIP) 0			
RB704	1-239-711-91	NETWORK RESISTOR (CHIP) 0			
RB705	1-239-711-91	NETWORK RESISTOR (CHIP) 0			
RB706	1-239-711-91	NETWORK RESISTOR (CHIP) 0			
		<CRYSTAL>			
X801	1-781-649-21	OSCILLATOR, CRYSTAL			
X802	1-781-650-21	VIBRATOR, CRYSTAL			
X901	1-760-014-11	VIBRATOR, CERAMIC			

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1136-069-A	BC4 BOARD COMPLETE **********************			
		<CAPACITOR>			
C2003	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2005	1-163-131-00	CERAMIC CHIP	390PF	5.00%	50V
C2006	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2010	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2011	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2015	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2016	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2017	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2018	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2021	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2024	1-216-295-91	SHORT	0		
C2029	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2030	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2031	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2032	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2033	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2034	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2035	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2036	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2037	1-104-664-11	ELECT	47UF	20.00%	16V
C2038	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2039	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2040	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2041	1-126-924-11	ELECT	330UF	20.00%	6.3V
C2042	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2044	1-104-664-11	ELECT	47UF	20.00%	16V
C2045	1-163-106-00	CERAMIC CHIP	36PF	5.00%	50V
C2046	1-126-964-11	ELECT	10UF	20.00%	50V
C2047	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2048	1-126-964-11	ELECT	10UF	20.00%	50V
C2049	1-126-960-11	ELECT	1UF	20.00%	50V
C2050	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2051	1-126-964-11	ELECT	10UF	20.00%	50V
C2052	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C2053	1-126-960-11	ELECT	1UF	20.00%	50V
C2054	1-104-664-11	ELECT	47UF	20.00%	16V
C2055	1-104-664-11	ELECT	47UF	20.00%	16V
C2056	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2057	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2058	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2059	1-104-664-11	ELECT	47UF	20.00%	16V
C2060	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2061	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2062	1-104-664-11	ELECT	47UF	20.00%	16V
C2063	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2064	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2065	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2066	1-104-664-11	ELECT	47UF	20.00%	16V
C2067	1-104-664-11	ELECT	47UF	20.00%	16V
C2068	1-104-664-11	ELECT	47UF	20.00%	16V
C2069	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2070	1-104-664-11	ELECT	47UF	20.00%	16V
C2071	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2072	1-163-237-11	CERAMIC CHIP	27PF	5.00%	50V
C2074	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2075	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C2078	1-104-664-11	ELECT	47UF	20.00%	16V
C2079	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2080	1-163-031-11	CERAMIC CHIP	0.01UF		50V
C2095	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2096	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2097	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
		<CONNECTOR>			
CN2001 *	1-793-685-11	PIN, CONNECTOR (PC BOARD) 15P			

BC4

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FERRITE BEAD>	
FB2002	1-414-234-22	INDUCTOR CHIP 0UH	
FB2008	1-414-234-22	INDUCTOR CHIP 0UH	
FB2009	1-414-234-22	INDUCTOR CHIP 0UH	
FB2010	1-414-234-22	INDUCTOR CHIP 0UH	
FB2011	1-414-234-22	INDUCTOR CHIP 0UH	
FB2012	1-414-234-22	INDUCTOR CHIP 0UH	
FB2014	1-414-234-22	INDUCTOR CHIP 0UH	
FB2015	1-414-234-22	INDUCTOR CHIP 0UH	
FB2016	1-414-234-22	INDUCTOR CHIP 0UH	
FB2017	1-414-234-22	INDUCTOR CHIP 0UH	
		<FILTER>	
FL2001	1-239-848-11	FILTER, LOW PASS	
FL2002	1-239-848-11	FILTER, LOW PASS	
FL2003	1-239-848-11	FILTER, LOW PASS	
FL2004	1-239-848-11	FILTER, LOW PASS	
FL2005	1-233-512-21	FERRITE 37UH	
FL2006	1-233-512-21	FERRITE 37UH	
FL2007	1-233-512-21	FERRITE 37UH	
		<IC>	
IC2003	8-759-568-27	IC MSM514265C-60JSDR1	
IC2004	8-759-594-44	IC UPD64082GF-3BA	
IC2005	8-759-431-14	IC PQ3TZ53U	
		<COIL>	
L2001	1-410-200-31	INDUCTOR CHIP 4.7UH	
L2004	1-412-058-11	INDUCTOR CHIP 10UH	
L2005	1-412-058-11	INDUCTOR CHIP 10UH	
L2006	1-412-058-11	INDUCTOR CHIP 10UH	
L2007	1-412-058-11	INDUCTOR CHIP 10UH	
L2008	1-412-058-11	INDUCTOR CHIP 10UH	
		<TRANSISTOR>	
Q2002	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2005	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2006	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2007	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2008	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2009	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2010	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2011	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2012	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2013	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2014	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2015	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2016	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2018	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2019	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R2011	1-216-041-00	RES-CHIP	470	5%	1/10W
R2015	1-216-041-00	RES-CHIP	470	5%	1/10W
R2019	1-216-295-91	SHORT	0		
R2021	1-216-025-91	RES-CHIP	100	5%	1/10W
R2027	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2028	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2029	1-216-043-91	RES-CHIP	560	5%	1/10W
R2030	1-216-043-91	RES-CHIP	560	5%	1/10W
R2031	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2032	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2033	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2034	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2035	1-216-043-91	RES-CHIP	560	5%	1/10W
R2036	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R2037	1-216-044-00	RES-CHIP	620	5%	1/10W
R2039	1-216-047-91	RES-CHIP	820	5%	1/10W
R2040	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2041	1-216-047-91	RES-CHIP	820	5%	1/10W
R2042	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2043	1-216-085-00	RES-CHIP	33K	5%	1/10W
R2044	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2046	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2047	1-216-085-00	RES-CHIP	33K	5%	1/10W
R2048	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2050	1-216-017-91	RES-CHIP	47	5%	1/10W
R2051	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2052	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2053	1-216-041-00	RES-CHIP	470	5%	1/10W
R2054	1-216-041-00	RES-CHIP	470	5%	1/10W
R2055	1-216-017-91	RES-CHIP	47	5%	1/10W
R2056	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2057	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2058	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2059	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2060	1-216-025-91	RES-CHIP	100	5%	1/10W
R2061	1-216-043-91	RES-CHIP	560	5%	1/10W
R2062	1-216-105-91	RES-CHIP	220K	5%	1/10W
R2063	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2064	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2066	1-216-033-00	RES-CHIP	220	5%	1/10W
R2067	1-216-043-91	RES-CHIP	560	5%	1/10W
R2069	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2070	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2071	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2072	1-216-043-91	RES-CHIP	560	5%	1/10W
R2073	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2074	1-216-025-91	RES-CHIP	100	5%	1/10W
R2075	1-216-295-91	SHORT	0		
R2076	1-216-025-91	RES-CHIP	100	5%	1/10W
R2077	1-216-025-91	RES-CHIP	100	5%	1/10W
R2078	1-216-295-91	SHORT	0		
R2092	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2093	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2104	1-216-295-91	SHORT	0		

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

BC4 C

REF. NO.	PART NO.	DESCRIPTION			REMARK
R2105	1-216-295-91	SHORT	0		
R2106	1-216-295-91	SHORT	0		
R2107	1-216-295-91	SHORT	0		
R2108	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2110	1-216-295-91	SHORT	0		
R2112	1-216-295-91	SHORT	0		
R2113	1-216-017-91	RES-CHIP	47	5%	1/10W
R2115	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2116	1-216-295-91	SHORT	0		
R2117	1-216-295-91	SHORT	0		
R2118	1-216-296-91	SHORT	0		
R2119	1-216-296-91	SHORT	0		
R2200	1-216-296-91	SHORT	0		
		<VARIABLE RESISTOR>			
RV2001	1-223-271-21	RES, ADJ, CERMET 220			
		<CRYSTAL>			
X2001	1-767-606-11	VIBRATOR, CRYSTAL			

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REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1332-005-A	C BOARD MOUNTED *******************			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C9002	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9003	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9004	1-162-114-00	CERAMIC	0.0047UF		2KV
C9005	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9006	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9007	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9008	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9009	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9010	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9011	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9012	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9014	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9015	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9018	1-107-961-91	ELECT	10UF	20.00%	250V
C9019	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9020	1-107-961-91	ELECT	10UF	20.00%	250V
C9021	1-107-961-91	ELECT	10UF	20.00%	250V
C9022	1-101-004-00	CERAMIC	0.01UF		50V
C9023	1-101-004-00	CERAMIC	0.01UF		50V
C9024	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9025	1-104-653-11	ELECT	220UF	20.00%	16V
C9026	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9027	1-101-004-00	CERAMIC	0.01UF		50V
C9028	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9029	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9030	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9031	1-162-114-00	CERAMIC	0.0047UF		2KV
C9032	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C9033	1-107-662-11	ELECT	22UF	20.00%	250V
C9042	1-126-940-11	ELECT	330UF	20.00%	25V
		<CONNECTOR>			
CN9001 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN9002	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CN9003	1-695-915-11	TAB (CONTACT)			
CN9004	1-695-915-11	TAB (CONTACT)			
CN9005 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN9007	1-785-879-11	CONNECTOR, ONE TOUCH			
		<DIODE>			
D9002	8-719-400-75	DIODE MA3091			
D9005	8-719-073-01	DIODE MA111-(K8).SO			
D9006	8-719-051-85	DIODE HSS83TD			
D9007	8-719-051-85	DIODE HSS83TD			
D9008	8-719-051-85	DIODE HSS83TD			
D9009	8-719-908-03	DIODE GP08D			
D9010	8-719-110-17	DIODE RD10ESB2			
		<IC>			
IC9001	8-759-360-83	IC TDA6111Q/N4			
IC9002	8-759-360-83	IC TDA6111Q/N4			
IC9003	8-759-360-83	IC TDA6111Q/N4			
		<JACK>			
J9001	⚠ 1-540-071-22	SOCKET, CRT			
		<COIL>			
L9001	1-414-158-11	INDUCTOR	2.2UH		
L9002	1-408-591-11	INDUCTOR	1UH		
L9003	1-408-591-11	INDUCTOR	1UH		
L9004	1-408-591-11	INDUCTOR	1UH		
L9005	1-406-666-21	INDUCTOR	150UH		
L9006	1-412-526-11	INDUCTOR	12UH		
		<NEON LAMP>			
NL9001	1-519-526-11	LAMP, NEON			
		<TRANSISTOR>			
Q9001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9010	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R9001	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9006	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9007	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9008	1-216-085-00	RES-CHIP	33K	5%	1/10W
R9012	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9013	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9018	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9019	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9021	1-216-295-91	SHORT	0		
R9023	1-216-295-91	SHORT	0		
R9026	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9031	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9033	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R9034	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R9035	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9036	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9037	1-240-233-71	METAL OXIDE	100	5%	3W
R9038	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9039	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9041	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9042	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9043	1-240-233-71	METAL OXIDE	100	5%	3W
R9044	1-240-233-71	METAL OXIDE	100	5%	3W
R9047	1-202-557-00	SOLID	220	20%	1/2W
R9048	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9049	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
R9051	1-202-557-00	SOLID	220	20%	1/2W
R9052	1-202-557-00	SOLID	220	20%	1/2W
R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
R9055	1-202-884-11	SOLID	820K	20%	1/2W
R9056	1-202-813-00	SOLID	22K	10%	1/2W
R9057	1-202-847-00	SOLID	560K	20%	1/2W
R9058	1-202-884-11	SOLID	820K	20%	1/2W
R9059	1-202-818-00	SOLID	1K	20%	1/2W
R9061	1-202-549-00	SOLID	100	20%	1/2W
R9065	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
R9069	1-202-549-00	SOLID	100	20%	1/2W
R9070	1-216-037-00	RES-CHIP	330	5%	1/10W
R9071	1-216-037-00	RES-CHIP	330	5%	1/10W
R9072	1-216-037-00	RES-CHIP	330	5%	1/10W
R9073	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		<VARIABLE RESISTOR>			
RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M			
RV9002	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M			

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1346-882-B	D BOARD COMPLETE *******************			
	1-803-614-11	VARISTOR			
*	4-363-146-00	HEAT SINK, V.OUT			
*	4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			
		<CAPACITOR>			
C6601	1-104-665-11	ELECT	100UF	20.00%	25V
C6602	1-129-720-00	FILM	0.033UF	5.00%	630V
C6604	1-126-967-11	ELECT	47UF	20.00%	50V
C6606	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6607 ⚠	1-119-886-51	CERAMIC	470PF	10.00%	250V
C6608 ⚠	1-119-886-51	CERAMIC	470PF	10.00%	250V
C6609	1-136-177-00	MYLAR	1UF	5.00%	50V
C6610	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6611	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6612	1-126-964-11	ELECT	10UF	20.00%	50V
C6613	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6614	1-161-830-00	CERAMIC	0.0047UF		500V
C6615	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6616	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6617	1-161-830-00	CERAMIC	0.0047UF		500V
C6618	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6619	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6620	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6621	1-131-940-11	ELECT	1200UF	20%	250V
C6622	1-131-940-11	ELECT	1200UF	20%	250V
C6624	1-126-933-11	ELECT	100UF	20.00%	16V
C6625	1-129-718-00	FILM	0.022UF	5.00%	630V
C6626	1-130-029-00	FILM	8200PF	2.00%	50V
C6627	1-102-129-00	CERAMIC	0.01UF	10.00%	50V
C6628	1-104-330-91	CERAMIC	470PF	10.00%	1KV
C6630	1-107-680-91	ELECT	22UF	20.00%	450V
C6631	1-126-964-11	ELECT	10UF	20.00%	50V
C6632	1-126-963-11	ELECT	4.7UF	20.00%	50V
C6633	1-126-967-11	ELECT	47UF	20.00%	50V
C6634	1-126-968-11	ELECT	100UF	20.00%	50V
C6635	1-102-973-00	CERAMIC	100PF	5.00%	50V
C6637	1-109-879-11	CERAMIC	22PF	5.00%	2KV
C6638	1-126-964-11	ELECT	10UF	20.00%	50V
C6639	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6640	1-104-330-91	CERAMIC	470PF	10.00%	1KV
C6641	1-136-189-00	MYLAR	0.1UF	10.00%	250V
C6642	1-126-964-11	ELECT	10UF	20.00%	50V
C6643	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6648	1-126-941-11	ELECT	470UF	20.00%	25V
C6649	1-104-665-11	ELECT	100UF	20.00%	25V
C6650	1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6651	1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6652	1-110-626-11	ELECT	330UF	20.00%	160V
C6653	1-137-368-11	MYLAR	0.0047UF	5.00%	50V
C6654	1-126-936-11	ELECT	3300UF	20.00%	16V
C6655	1-126-942-61	ELECT	1000UF	20.00%	25V
C6656	1-136-165-00	MYLAR	0.1UF	5.00%	50V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
C6658	1-126-944-11	ELECT	3300UF	20.00%	25V
C6659	1-126-944-11	ELECT	3300UF	20.00%	25V
C6660	1-126-960-11	ELECT	1UF	20.00%	50V
C6661	1-104-664-11	ELECT	47UF	20.00%	16V
C6662	1-104-664-11	ELECT	47UF	20.00%	16V
C6663	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6664	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6665	1-126-964-11	ELECT	10UF	20.00%	50V
C6666	1-137-150-11	MYLAR	0.01UF	5.00%	50V
C6668	1-104-664-11	ELECT	47UF	20.00%	25V
C6669	1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6670	1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6671	1-129-718-00	FILM	0.022UF	5.00%	630V
C6672	1-104-331-11	CERAMIC	0.0022UF	10.00%	1KV
C6673	1-104-331-11	CERAMIC	0.0022UF	10.00%	1KV
C6674	1-128-527-11	ELECT	330UF	20.00%	25V
C6677	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C6679	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C6680	1-136-157-00	MYLAR	0.022UF	5.00%	50V
C6800	1-126-964-11	ELECT	10UF	20.00%	50V
C6801	1-126-960-11	ELECT	1UF	20.00%	50V
C6802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6803	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6804	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6805	1-111-087-11	ELECT	330UF	20.00%	25V
C6806	1-107-933-11	ELECT	100UF	20.00%	100V
C6808	1-137-401-11	MYLAR	0.22UF	10.00%	100V
C6809	1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C6810	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C6811	1-111-087-11	ELECT	330UF	20.00%	25V
C6812	1-130-785-11	MYLAR	0.47UF	10.00%	100V
C6813	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
C6814	1-115-565-11	CERAMIC CHIP	2.2UF	10.00%	10V
C6815	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
C6816	1-136-060-00	FILM	0.047UF	5.00%	400V
C6817	1-126-967-11	ELECT	47UF	20.00%	50V
C6818	1-126-960-11	ELECT	1UF	20.00%	50V
C6819	1-126-960-11	ELECT	1UF	20.00%	50V
C6820	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6821	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C6822	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6823	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C6826	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6827	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6828	1-106-343-00	MYLAR	0.001UF	10.00%	200V
C6829	1-162-558-11	CERAMIC	100PF	10.00%	2KV
C6831	1-117-835-21	FILM	6200PF	3.00%	1.5KV
C6832	1-117-836-21	FILM	6800PF	3.00%	1.5KV
C6833	1-127-680-11	FILM MELF	4700PF	2%	100V
C6834	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6835	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6836	1-127-681-11	FILM MELF	10000PF	2%	100V
C6837	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6838	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6839	1-126-933-11	ELECT	100UF	20.00%	16V
C6840	1-126-933-11	ELECT	100UF	20.00%	16V
C6841	1-117-660-81	FILM	0.12UF	5.00%	250V
C6842	1-117-667-81	FILM	0.47UF	5.00%	250V
C6843	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6844	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6845	1-115-514-11	FILM	0.22UF	5.00%	250V
C6846	1-109-945-11	FILM	0.18UF	5.00%	250V
C6848	1-113-979-51	FILM	0.047UF	5%	250V
C6849	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6850	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6851	1-107-639-11	ELECT	47UF	20.00%	160V
C6853	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6854	1-126-941-11	ELECT	470UF	20.00%	25V
C6855	1-123-024-21	ELECT	33UF		160V
C6856	1-126-971-11	ELECT	470UF	20.00%	50V
C6857	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6858	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6859	1-162-129-00	CERAMIC	150PF	10.00%	2KV
C6860	1-162-131-11	CERAMIC	220PF	10.00%	2KV
C6862	1-130-202-00	FILM	0.022UF	5.00%	200V
C6863	1-107-906-11	ELECT	10UF	20.00%	50V
C6864	1-129-898-00	FILM	0.0022UF	5.00%	630V
C6865	1-130-202-00	FILM	0.022UF	5.00%	400V
C6866	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6867	1-130-785-11	MYLAR	0.47UF	10.00%	100V
C6868	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6871	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C6872	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6874	1-136-165-00	MYLAR	0.1UF	5.00%	50V
C6875	1-104-664-11	ELECT	47UF	20.00%	16V
C6876	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6877	1-126-964-11	ELECT	10UF	20.00%	50V
C6878	1-126-320-11	ELECT	10UF	20.00%	16V
C6879	1-107-960-11	ELECT	4.7UF	20.00%	160V
C6880	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6882	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV
C6883	1-126-964-11	ELECT	10UF	20.00%	50V
C6884	1-115-565-11	CERAMIC CHIP	2.2UF	10.00%	10V
C6885	1-162-131-11	CERAMIC	220PF	10.00%	2KV

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION
CN6602*⚠	1-508-786-13	PIN, CONNECTOR (5MM PITCH) 2P
CN6603*⚠	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P
CN6604*⚠	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P
CN6605*⚠	1-564-513-11	PLUG, CONNECTOR 10P
CN6606*	1-564-510-11	PLUG, CONNECTOR 7P
CN6608*	1-564-506-11	PLUG, CONNECTOR 3P
CN6609*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6610*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6611*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6612*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6613*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6614*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6615*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6616*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6618*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6800	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P
CN6801*⚠	1-785-270-12	PIN, DY CONNECTOR (PC BOARD)
CN6802	1-793-495-11	CONNECTOR, BOARD TO BOARD 50P

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN6804	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
CN6808	1-695-915-11	TAB (CONTACT)	
CN6810	1-785-879-11	CONNECTOR, ONE TOUCH	
CN6811*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN6812*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
		<DIODE>	
D6601	8-719-911-19	DIODE 1SS119-25	
D6602	8-719-073-01	DIODE MA111-(K8).SO	
D6603	8-719-073-01	DIODE MA111-(K8).SO	
D6604	8-719-073-01	DIODE MA111-(K8).SO	
D6605	8-719-510-53	DIODE D4SB60L	
D6606	8-719-073-01	DIODE MA111-(K8).SO	
D6607	8-719-073-01	DIODE MA111-(K8).SO	
D6608	8-719-073-01	DIODE MA111-(K8).SO	
D6609	8-719-911-19	DIODE 1SS119-25	
D6610	8-719-073-01	DIODE MA111-(K8).SO	
D6611	8-719-073-01	DIODE MA111-TX	
D6612	8-719-911-55	DIODE U05G	
D6613	8-719-911-55	DIODE U05G	
D6614	8-719-110-30	DIODE RD12ESB1	
D6615	8-719-911-19	DIODE 1SS119-25	
D6616	8-719-911-55	DIODE U05G	
D6617	8-719-911-55	DIODE U05G	
D6618	8-719-073-01	DIODE MA111-(K8).SO	
D6619	8-719-110-30	DIODE RD12ESB1	
D6621	8-719-063-73	DIODE D1NL20U-TR	
D6622	8-719-979-64	DIODE UF4005PKG23	
D6623	8-719-059-23	DIODE P6KE200AG23	
D6624	8-719-510-02	DIODE D1NS4	
D6625	8-719-110-36	DIODE RD13ESB2	
D6626	8-719-979-64	DIODE UF4005PKG23	
D6628	8-719-063-73	DIODE D1NL20U-TR	
D6631	8-719-050-18	DIODE D4SBL20U	
D6632	8-719-073-01	DIODE MA111-(K8).SO	
D6633	8-719-510-12	DIODE D10SC4M	
D6634	8-719-060-88	DIODE D4SBS6	
D6635	8-719-110-47	DIODE RD18ESB	
D6636	8-719-911-19	DIODE 1SS119-25	
D6639	8-719-063-73	DIODE D1NL20U-TR	
D6640	8-719-110-72	DIODE RD30ESB2	
D6641	8-719-109-96	DIODE RD6.8ESB1	
D6642	8-719-911-19	DIODE 1SS119-25	
D6643	8-719-979-64	DIODE UF4005PKG23	
D6644	8-719-052-92	DIODE D10SBS4F	
D6648	8-719-110-30	DIODE RD12ESB1	
D6649	8-719-073-01	DIODE MA111-(K8).SO	
D6650	8-719-911-19	DIODE 1SS119-25	
D6651	8-719-977-95	DIODE DTZ-TT11-2.4B	
D6652	8-719-110-47	DIODE RD18ESB	
D6800	8-719-110-03	DIODE RD7.5ESB 2	
D6801	8-719-911-19	DIODE 1SS119-25	
D6803	8-719-510-73	DIODE S3L20UF4	
D6805	8-719-110-39	DIODE RD15ESB1	
D6806	8-719-911-19	DIODE 1SS119-25	
D6807	8-719-109-68	DIODE RD3.6ESB1	
D6808	8-719-914-43	DIODE DAN202K	

REF. NO.	PART NO.	DESCRIPTION		REMARK
D6809	8-719-908-03	DIODE GP08D		
D6812	8-719-110-39	DIODE RD15ESB1		
D6813	8-719-302-43	DIODE ELIZ		
D6814	8-719-018-82	DIODE RGP02-20EL-6394		
D6816	8-719-510-73	DIODE S3L20UF4		
D6817	8-719-510-73	DIODE S3L20UF4		
D6820	8-719-970-87	DIODE ERA38-06		
D6821	8-719-970-87	DIODE ERA38-06		
D6823	8-719-911-19	DIODE 1SS119-25		
D6824	8-719-510-73	DIODE S3L20UF4		
D6825	8-719-914-43	DIODE DAN202K		
D6826	8-719-911-19	DIODE 1SS119-25		
		<FERRITE BEAD>		
FB6602	1-239-358-21	FILTER, NOISE		
FB6603	1-239-358-21	FILTER, NOISE		
		<IC>		
IC6601	8-759-198-31	IC UPC1093J-1-T		
IC6602	8-759-103-93	IC UPC393C		
IC6603	8-749-016-66	IC MCR5152		
IC6604	8-759-468-89	IC TOP209P		
IC6606	8-759-450-47	IC BA05T		
IC6607	8-749-012-13	IC DM-58		
IC6608	8-759-103-93	IC UPC393C		
IC6800	8-759-192-71	IC STV9379		
IC6801	8-759-450-95	IC LM393N		
IC6804	8-759-394-36	IC BA09T		
IC6805	8-759-394-35	IC BA12T		
		<CHIP CONDUCTOR>		
JR6601	1-216-295-91	SHORT	0	
JR6603	1-216-295-91	SHORT	0	
JR6605	1-216-296-91	SHORT	0	
JR6606	1-216-296-91	SHORT	0	
JR6607	1-216-295-91	SHORT	0	
JR6608	1-216-296-91	SHORT	0	
JR6609	1-216-295-91	SHORT	0	
JR6610	1-216-296-91	SHORT	0	
JR6802	1-216-296-91	SHORT	0	
JR6810	1-216-296-91	SHORT	0	
		<COIL>		
L6601	1-412-525-31	INDUCTOR	10UH	
L6602	1-410-397-21	FERRITE	1.1UH	
L6603	1-410-397-21	FERRITE	1.1UH	
L6604	1-412-525-31	INDUCTOR	10UH	
L6605	1-412-525-31	INDUCTOR	10UH	
L6606	1-412-525-31	INDUCTOR	10UH	
L6607	1-412-519-11	INDUCTOR	3.3UH	
L6800	1-412-525-31	INDUCTOR	10UH	
L6801	1-406-675-11	INDUCTOR	4.7MH	
L6803	1-406-985-11	INDUCTOR	2.2MH	

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REF. NO.	PART NO.	DESCRIPTION			REMARK
L6804	1-412-519-11	INDUCTOR	3.3UH		
L6805	1-412-519-11	INDUCTOR	3.3UH		
L6806	1-412-519-11	INDUCTOR	3.3UH		
L6807	1-412-552-11	INDUCTOR	2.2MH		
L6808	1-406-674-11	INDUCTOR	3.3MH		
		<NEON LAMP>			
NL6601	1-219-759-11	CARBON	1M	5%	1/2W
		<PHOTO COUPLER>			
PH6601	8-749-924-35	PHOTO COUPLER ON3171-R			
PH6602	8-749-924-35	PHOTO COUPLER ON3171-R			
		<IC LINK>			
PS6605	1-533-597-41	LINK, IC			
PS6606	1-533-597-41	LINK, IC			
PS6607	1-533-597-41	LINK, IC			
PS6801	1-532-841-21	LINK, IC			
		<TRANSISTOR>			
Q6601	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6602	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6603	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q6604	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q6605	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6606	8-729-140-93	TRANSISTOR 2SB733-34			
Q6608	8-729-200-21	TRANSISTOR 2SC2500-B			
Q6609	8-729-029-56	TRANSISTOR DTA144ESA			
Q6610	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6611	8-729-029-66	TRANSISTOR DTC114ESA			
Q6612	8-729-029-66	TRANSISTOR DTC114ESA			
Q6613	8-729-030-02	TRANSISTOR DTC144ESA			
Q6614	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q6615	8-729-900-53	TRANSISTOR DTC114EKA			
Q6616	8-729-029-66	TRANSISTOR DTC114ESA			
Q6800	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q6801	8-729-039-68	TRANSISTOR IRF620			
Q6802	8-729-046-33	TRANSISTOR IRF720-LF49			
Q6803	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q6804	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6805	8-729-140-96	TRANSISTOR 2SD774-34			
Q6806	8-729-140-96	TRANSISTOR 2SD774-34			
Q6807	8-729-046-18	TRANSISTOR 2SC5480-01			
Q6808	8-729-046-18	TRANSISTOR 2SC5480-01			
Q6809	8-729-038-83	TRANSISTOR 2SK2251-01-F19			
Q6810	8-729-047-60	TRANSISTOR IRFI830G-LF49			
Q6811	1-801-806-11	TRANSISTOR DTC144EKA			
Q6812	8-729-043-95	TRANSISTOR 2SC3840 (3)			
Q6813	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q6814	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6815	8-729-045-65	TRANSISTOR 2SA1776TV2Q			
Q6816	8-729-140-96	TRANSISTOR 2SD774-34			
Q6817	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q6818	1-801-806-11	TRANSISTOR DTC144EKA			
Q6819	1-801-806-11	TRANSISTOR DTC144EKA			

REF. NO.	PART NO.	DESCRIPTION			REMARK
Q6820	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q6821	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR			
Q6823	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
		<RESISTOR>			
R6500	1-220-797-11	CEMENTED	0.47 5%	10W	
R6600	1-216-295-91	SHORT	0		
R6602	1-249-417-11	CARBON	1K	5%	1/4W
R6603	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6604	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6605	1-215-471-00	METAL	120K 1%	1/4W	
R6606	1-215-466-00	METAL	75K	1%	1/4W
R6607	1-215-489-00	METAL	680K 1%	1/4W	
R6608	1-215-489-00	METAL	680K 1%	1/4W	
R6609	1-215-489-00	METAL	680K 1%	1/4W	
R6610	1-208-830-11	METAL CHIP	100K 0.5%	1/10W	
R6611	1-208-798-11	METAL CHIP	4.7K 0.5%	1/10W	
R6612	1-215-471-00	METAL	120K 1%	1/4W	
R6613	1-215-489-00	METAL	680K 1%	1/4W	
R6614	1-215-489-00	METAL	680K 1%	1/4W	
R6615	1-215-489-00	METAL	680K 1%	1/4W	
R6616	1-208-830-11	METAL CHIP	100K 0.5%	1/10W	
R6617	1-208-844-11	METAL CHIP	390K 0.5%	1/10W	
R6618	1-215-466-00	METAL	75K	1%	1/4W
R6619	1-216-113-00	RES-CHIP	470K 5%	1/10W	
R6620	1-208-846-11	METAL CHIP	470K 0.5%	1/10W	
R6621	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6622	1-220-797-11	CEMENTED	0.47 5%	10W	
R6623	1-215-457-00	METAL	33K	1%	1/4W
R6624	1-208-830-11	METAL CHIP	100K 0.5%	1/10W	
R6625	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R6626	1-208-830-11	METAL CHIP	100K 0.5%	1/10W	
R6627	1-208-834-11	METAL CHIP	150K 0.5%	1/10W	
R6628	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6629	1-215-466-00	METAL	75K	1%	1/4W
R6630	1-215-489-00	METAL	680K 1%	1/4W	
R6631	1-215-489-00	METAL	680K 1%	1/4W	
R6632	1-215-489-00	METAL	680K 1%	1/4W	
R6633	1-215-458-00	METAL	36K	1%	1/4W
R6634	1-215-489-00	METAL	680K 1%	1/4W	
R6635	1-215-489-00	METAL	680K 1%	1/4W	
R6636	1-215-489-00	METAL	680K 1%	1/4W	
R6637	1-215-463-00	METAL	56K	1%	1/4W
R6638	1-240-876-11	CEMENTED	1	5%	15W
R6639	1-240-876-11	CEMENTED	1	5%	15W
R6640	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6641	1-260-131-11	CARBON	470K 5%	1/2W	
R6642	1-260-131-11	CARBON	470K 5%	1/2W	
R6643	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6644	1-216-065-91	RES-CHIP	4.7K 5%	1/10W	
R6645	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6646	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6647	1-215-864-00	METAL OXIDE	150	5%	1W
R6648	1-215-481-00	METAL	330K 1%	1/4W	
R6649	1-216-065-91	RES-CHIP	4.7K 5%	1/10W	

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The components identified by shading and mark ⚠ are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK
R6650	1-215-481-00	METAL	330K 1% 1/4W
R6651	1-215-430-00	METAL	2.4K 1% 1/4W
R6652	1-215-450-00	METAL	16K 1% 1/4W
R6653	1-219-776-11	CARBON	2.2M 10% 1/2W
R6654	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6655	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6656	1-215-481-00	METAL	330K 1% 1/4W
R6657	1-247-791-91	CARBON	22 5% 1/4W
R6658	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6659	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6660	1-249-389-11	CARBON	4.7 5% 1/4W
R6661	1-215-421-00	METAL	1K 1% 1/4W
R6662	1-216-381-11	METAL OXIDE	0.22 5% 3W
R6663	1-216-381-11	METAL OXIDE	0.22 5% 3W
R6665	1-219-776-11	CARBON	2.2M 10% 1/2W
R6666	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R6667	1-249-413-11	CARBON	470 5% 1/4W
R6668	1-216-017-91	RES-CHIP	47 5% 1/10W
R6669	1-249-417-11	CARBON	1K 5% 1/4W
R6672	1-249-421-11	CARBON	2.2K 5% 1/4W
R6674	1-249-415-11	CARBON	680 5% 1/4W
R6679	1-249-437-11	CARBON	47K 5% 1/4W
R6680	1-216-362-11	METAL OXIDE	0.27 5% 2W
R6681	1-249-429-11	CARBON	10K 5% 1/4W
R6682	1-249-416-11	CARBON	820 5% 1/4W
R6683	1-260-127-11	CARBON	220K 5% 1/2W
R6685	1-249-421-11	CARBON	2.2K 5% 1/4W
R6686 ⚠	1-218-265-11	METAL	8.2M 5% 1W
R6688	1-249-417-11	CARBON	1K 5% 1/4W
R6689	1-249-389-11	CARBON	4.7 5% 1/4W
R6690	1-249-429-11	CARBON	10K 5% 1/4W
R6691	1-260-131-11	CARBON	470K 5% 1/2W
R6692	1-249-410-11	CARBON	270 5% 1/4W
R6693	1-215-451-00	METAL	18K 1% 1/4W
R6694	1-215-471-00	METAL	120K 1% 1/4W
R6696	1-215-925-11	METAL OXIDE	22K 5% 3W
R6697	1-249-429-11	CARBON	10K 5% 1/4W
R6698	1-249-417-11	CARBON	1K 5% 1/4W
R6701	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6702	1-216-093-91	RES-CHIP	68K 5% 1/10W
R6703	1-216-091-00	RES-CHIP	56K 5% 1/10W
R6704	1-249-377-11	CARBON	0.47 5% 1/4W
R6707	1-249-421-11	CARBON	2.2K 5% 1/4W
R6710	1-217-158-00	METAL	0.47 10% 5W
R6711	1-215-471-00	METAL	120K 1% 1/4W
R6712	1-215-451-00	METAL	18K 1% 1/4W
R6713	1-249-423-11	CARBON	3.3K 5% 1/4W
R6714	1-249-423-11	CARBON	3.3K 5% 1/4W
R6715	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6800	1-249-429-11	CARBON	10K 5% 1/4W
R6801	1-249-429-11	CARBON	10K 5% 1/4W
R6802	1-249-429-11	CARBON	10K 5% 1/4W
R6803	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6804	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
R6805	1-215-441-00	METAL	6.8K 1% 1/4W
R6806	1-215-435-00	METAL	3.9K 1% 1/4W
R6807	1-249-383-11	CARBON	1.5 5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R6810	1-214-798-21	METAL	1.8 1% 1/2W
R6811	1-215-913-11	METAL OXIDE	220 5% 3W
R6812	1-247-843-11	CARBON	3.3K 5% 1/4W
R6813	1-214-798-21	METAL	1.8 1% 1/2W
R6814	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6815	1-208-801-11	METAL CHIP	6.2K 0.5% 1/10W
R6816	1-214-915-00	METAL	120K 1% 1/2W
R6818	1-215-485-00	METAL	470K 1% 1/4W
R6819	1-249-421-11	CARBON	2.2K 5% 1/4W
R6820	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6822	1-216-461-00	METAL OXIDE	5.6K 5% 2W
R6823	1-215-895-11	METAL OXIDE	3.3K 5% 2W
R6824	1-249-411-11	CARBON	330 5% 1/4W
R6825	1-249-411-11	CARBON	330 5% 1/4W
R6826	1-216-459-00	METAL OXIDE	2.7K 5% 2W
R6827	1-215-895-11	METAL OXIDE	3.3K 5% 2W
R6828	1-249-417-11	CARBON	1K 5% 1/4W
R6829	1-249-417-11	CARBON	1K 5% 1/4W
R6830	1-247-764-11	CARBON	10K 5% 1/2W
R6831	1-247-764-11	CARBON	10K 5% 1/2W
R6832	1-215-477-00	METAL	220K 1% 1/4W
R6833	1-215-493-00	METAL	1M 1% 1/4W
R6834	1-216-381-11	METAL OXIDE	0.22 5% 3W
R6835	1-216-381-11	METAL OXIDE	0.22 5% 3W
R6836	1-215-905-11	METAL OXIDE	10 5% 3W
R6837	1-215-905-11	METAL OXIDE	10 5% 3W
R6838	1-215-461-00	METAL	47K 1% 1/4W
R6839	1-249-405-11	CARBON	100 5% 1/4W
R6841	1-216-434-11	METAL OXIDE	1.8K 5% 1W
R6842	1-215-923-00	METAL OXIDE	10K 5% 3W
R6843	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6844	1-247-807-31	CARBON	100 5% 1/4W
R6846	1-260-127-11	CARBON	220K 5% 1/2W
R6849	1-535-303-00	WIRE, JUMPER	(5.0 MM)
R6850	1-535-303-00	WIRE, JUMPER	(5.0 MM)
R6851	1-260-288-11	CARBON	0.47 5% 1/2W
R6852	1-216-345-11	METAL OXIDE	0.47 5% 1W
R6853	1-260-288-11	CARBON	0.47 5% 1/2W
R6854	1-215-923-00	METAL OXIDE	10K 5% 3W
R6855	1-214-899-81	METAL	27K 1% 1/2W
R6856	1-215-923-00	METAL OXIDE	10K 5% 3W
R6857	1-215-923-00	METAL OXIDE	10K 5% 3W
R6858	1-214-899-81	METAL	27K 1% 1/2W
R6859	1-215-871-11	METAL OXIDE	2.2K 5% 1W
R6860	1-215-923-00	METAL OXIDE	10K 5% 3W
R6861	1-216-295-91	SHORT	0
R6862	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6863	1-215-894-11	METAL OXIDE	2.2K 5% 2W
R6864	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6865	1-216-103-00	RES-CHIP	180K 5% 1/10W
R6866	1-215-433-00	METAL	3.3K 1% 1/4W
R6867	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6868	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6869	1-216-115-00	RES-CHIP	560K 5% 1/10W
R6870	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6871	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6872	1-260-125-11	CARBON	150K 5% 1/2W
R6873	1-260-125-11	CARBON	150K 5% 1/2W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R6875	1-249-417-11	CARBON	1K 5% 1/4W
R6876	1-216-391-11	METAL OXIDE	1.5 5% 3W
R6877	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R6878	1-208-770-11	METAL CHIP	330 0.5% 1/10W
R6880	1-215-441-00	METAL	6.8K 1% 1/4W
R6881	1-215-453-00	METAL	22K 1% 1/4W
R6882	1-215-456-00	METAL	30K 1% 1/4W
R6883	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6884	1-249-441-11	CARBON	100K 5% 1/4W
R6885	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R6886	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R6887	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6888	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6889	1-260-125-11	CARBON	150K 5% 1/2W
R6890	1-260-125-11	CARBON	150K 5% 1/2W
R6891	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R6892	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6893	1-216-085-00	RES-CHIP	33K 5% 1/10W
R6894	1-260-133-11	CARBON	680K 5% 1/2W
R6895	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6896	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6897	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6899	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6900	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6901	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6902	1-249-441-11	CARBON	100K 5% 1/4W
R6903	1-215-923-00	METAL OXIDE	10K 5% 3W
R6905	1-249-389-11	CARBON	4.7 5% 1/4W
R6906	1-216-079-00	RES-CHIP	18K 5% 1/10W
R6907	1-216-079-00	RES-CHIP	18K 5% 1/10W
		<RELAY>	
RY6601	1-515-840-11	RELAY	
RY6602	1-755-357-11	RELAY, AC POWER	
RY6603	1-755-357-11	RELAY, AC POWER	
		<TRANSFORMER>	
T6601 ⚠	1-431-732-12	TRANSFORMER, CONVERTER (SRT)	
T6602 ⚠	1-435-081-11	TRANSFORMER, CONVERTER (PIT)	
T6800	1-429-741-11	TRANSFORMER, DRIVE	
T6801	1-433-934-11	TRANSFORMER, FERRITE (DFT)	
T6802	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
T6803 ⚠	1-453-325-11	FBT ASSY NX-4522//J1I4	
T6804	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
		<THERMISTOR>	
TH6601	1-803-540-11	THERMISTOR	
TH6603	1-803-586-11	THERMISTOR, NTC	
		<VARISTOR>	
VD6603	1-803-830-11	VARISTOR (ERZV14D621)	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
*	A-1343-742-D	D1 BOARD MOUNTED ********************	
	4-027-606-01	HEAT SINK (TO-220 TYPE)	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
		<CAPACITOR>	
C6101	1-107-714-11	ELECT	10UF 20.00% 50V
C6102	1-109-953-11	ELECT	2.2UF 20.00% 50V
C6103	1-107-714-11	ELECT	10UF 20.00% 50V
C6104	1-126-965-11	ELECT	22UF 20.00% 50V
C6105	1-104-665-11	ELECT	100UF 20.00% 25V
C6106	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
C6108	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C6109	1-126-967-11	ELECT	47UF 20.00% 50V
C6112	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V
C6113	1-137-493-11	FILM	0.0047UF 5.00% 630V
C6114	1-107-909-11	ELECT	47UF 20.00% 50V
C6115	1-163-005-11	CERAMIC CHIP	470PF 10.00% 50V
C6116	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
C6117	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
C6118	1-107-909-11	ELECT	47UF 20.00% 16V
C6120	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
C6121	1-126-963-11	ELECT	4.7UF 20.00% 50V
C6122	1-126-967-11	ELECT	47UF 20.00% 50V
C6123	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C6124	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C6125	1-104-664-11	ELECT	47UF 20.00% 16V
C6127	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C6128	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C6129	1-126-964-11	ELECT	10UF 20.00% 50V
C6131	1-126-964-11	ELECT	10UF 20.00% 50V
C6133	1-137-194-81	MYLAR	0.47UF 5.00% 50V
C6136	1-129-716-00	FILM	0.015UF 5.00% 630V
C6138	1-126-968-11	ELECT	100UF 20.00% 50V
C6139	1-107-902-11	ELECT	1UF 20.00% 50V
C6140	1-126-960-11	ELECT	1UF 20.00% 50V
C6201	1-126-967-11	ELECT	47UF 20.00% 50V
C6202	1-126-967-11	ELECT	47UF 20.00% 50V
C6203	1-126-967-11	ELECT	47UF 20.00% 50V
C6204	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C6205	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C6206	1-126-964-11	ELECT	10UF 20.00% 50V
C6207	1-126-967-11	ELECT	47UF 20.00% 50V
C6208	1-126-967-11	ELECT	47UF 20.00% 50V
C6209	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C6210	1-163-009-11	CERAMIC CHIP	0.001UF 10.00% 50V
C6211	1-126-964-11	ELECT	10UF 20.00% 50V
C6212	1-164-222-11	CERAMIC CHIP	0.22UF 25V
C6350	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C6351	1-126-967-11	ELECT	47UF 20.00% 50V
C6353	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C6355	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C6356	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
C6358	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C6361	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C6362	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C6365	1-163-809-11	CERAMIC CHIP	0.047UF	10.00% 25V
C6376	1-104-664-11	ELECT	47UF	20.00% 16V
C6377	1-128-551-11	ELECT	22UF	20.00% 25V
C6378	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6380	1-136-495-11	MYLAR	0.068UF	5.00% 50V
C6381	1-126-964-11	ELECT	10UF	20.00% 50V
C6385	1-104-664-11	ELECT	47UF	20.00% 25V
C6386	1-104-664-11	ELECT	47UF	20.00% 25V
C6388	1-126-964-11	ELECT	10UF	20.00% 50V
C6392	1-104-664-11	ELECT	47UF	20.00% 25V
C6409	1-126-963-11	ELECT	4.7UF	20.00% 50V
		<CONNECTOR>		
CN6100	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P		
CN6101*	1-564-525-11	PLUG, CONNECTOR 10P		
CN6103*	1-564-518-11	PLUG, CONNECTOR 3P		
CN6104*	1-564-523-11	PLUG, CONNECTOR 8P		
		<DIODE>		
D6101	8-719-510-02	DIODE D1NS4		
D6102	8-719-510-02	DIODE D1NS4		
D6103	8-719-063-73	DIODE D1NL20U-TR		
D6104	8-719-911-19	DIODE 1SS119-25		
D6105	8-719-109-60	DIODE RD2.7ESB2		
D6106	8-719-510-02	DIODE D1NS4		
D6107	8-719-911-19	DIODE 1SS119-25		
D6108	8-719-911-19	DIODE 1SS119-25		
D6110	8-719-987-87	DIODE ERA85-009		
D6133	8-719-911-19	DIODE 1SS119-25		
D6134	8-719-911-19	DIODE 1SS119-25		
D6201	8-719-109-88	DIODE RD5.6ESB1		
D6210	8-719-109-88	DIODE RD5.6ESB1		
D6350	8-719-914-43	DIODE DAN202K		
D6351	8-719-914-43	DIODE DAN202K		
D6355	8-719-914-43	DIODE DAN202K		
D6404	8-719-914-43	DIODE DAN202K		
		<IC>		
IC6101	8-752-053-21	IC CXA1211M		
IC6102	8-759-450-95	IC LM393N		
IC6103	8-759-450-95	IC LM393N		
IC6104	8-759-803-42	IC LA6500-FA		
IC6105	8-759-450-95	IC LM393N		
IC6106	8-759-198-31	IC UPC1093J-1-T		
IC6108	8-759-567-08	IC MB88141APF-ER		
IC6201	8-759-183-37	IC CA0007AD		
IC6202	8-759-135-80	IC LM358C		
IC6351	8-759-450-95	IC LM393N		
IC6353	8-759-231-53	IC TA7805S		
IC6354	8-759-325-48	IC CA0005AD		
IC6356	8-759-822-38	IC LA6510		

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CHIP CONDUCTOR>			
JR6101	1-216-296-91	SHORT	0		
JR6102	1-216-296-91	SHORT	0		
JR6103	1-216-296-91	SHORT	0		
JR6104	1-216-295-91	SHORT	0		
JR6108	1-216-296-91	SHORT	0		
JR6109	1-216-296-91	SHORT	0		
JR6110	1-216-296-91	SHORT	0		
JR6111	1-216-296-91	SHORT	0		
JR6112	1-216-296-91	SHORT	0		
JR6113	1-216-296-91	SHORT	0		
JR6114	1-216-296-91	SHORT	0		
JR6115	1-216-296-91	SHORT	0		
		<COIL>			
L6101	1-416-920-11	INDUCTOR	10MH		
L6102	1-406-989-21	INDUCTOR	10MH		
		<IC LINK>			
PS6101	1-533-589-31	LINK, IC			
		<TRANSISTOR>			
Q6103	8-729-046-33	TRANSISTOR IRF720-LF49			
Q6104	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6105	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6107	8-729-140-93	TRANSISTOR 2SB733-34			
Q6108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6118	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6124	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q6125	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6126	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6128	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6201	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6202	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6203	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q6350	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6356	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6455	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R6101	1-216-025-91	RES-CHIP	100	5%	1/10W
R6103	1-216-049-91	RES-CHIP	1K	5%	1/10W
R6104	1-216-065-91	RES-CHIP	4.7K 5%	1/10W	
R6105	1-208-798-11	METAL CHIP	4.7K 0.5%	1/10W	
R6106	1-208-798-11	METAL CHIP	4.7K 0.5%	1/10W	
R6107	1-216-057-00	RES-CHIP	2.2K 5%	1/10W	
R6108	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6109	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6110	1-216-295-91	SHORT	0		
R6112	1-208-826-11	METAL CHIP	68K	0.5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R6113	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6114	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6115	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R6116	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6117	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R6118	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6119	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
R6120	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6121	1-216-490-11	METAL OXIDE	39K 5% 3W
R6122	1-216-295-91	SHORT	0
R6123	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R6124	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
R6125	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6126	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R6127	1-208-832-11	METAL CHIP	120K 0.5% 1/10W
R6128	1-208-838-91	METAL CHIP	220K 0.5% 1/10W
R6129	1-216-353-00	METAL OXIDE	2.2 5% 1W
R6130	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6131	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R6133	1-208-812-11	METAL CHIP	18K 0.5% 1/10W
R6134	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6135	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6136	1-260-099-11	CARBON	1K 5% 1/2W
R6137	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6138	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R6139	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R6140	1-216-077-91	RES-CHIP	15K 5% 1/10W
R6141	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R6142	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6143	1-208-792-11	METAL CHIP	2.7K 0.5% 1/10W
R6144	1-208-840-11	METAL CHIP	270K 0.5% 1/10W
R6146	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6149	1-208-828-11	METAL CHIP	82K 0.5% 1/10W
R6150	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6151	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6152	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6153	1-216-105-91	RES-CHIP	220K 5% 1/10W
R6154	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R6155	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6156	1-216-077-91	RES-CHIP	15K 5% 1/10W
R6157	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6158	1-216-689-11	RES-CHIP	39K 5% 1/10W
R6159	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R6161	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R6162	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6168	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6169	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R6170	1-216-037-00	RES-CHIP	330 5% 1/10W
R6171	1-216-113-00	RES-CHIP	470K 5% 1/10W
R6172	1-216-105-91	RES-CHIP	220K 5% 1/10W
R6173	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6174	1-216-079-00	RES-CHIP	18K 5% 1/10W
R6175	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R6176	1-249-389-11	CARBON	4.7 5% 1/4W
R6177	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6178	1-249-389-11	CARBON	4.7 5% 1/4W
R6179	1-216-101-00	RES-CHIP	150K 5% 1/10W
R6180	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6181	1-216-105-91	RES-CHIP	220K 5% 1/10W
R6190	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6192	1-216-295-91	SHORT	0
R6195	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6196	1-249-377-11	CARBON	0.47 5% 1/4W
R6200	1-208-827-11	METAL CHIP	75K 0.5% 1/10W
R6201	1-247-750-11	CARBON	680 5% 1/2W
R6202	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R6203	1-215-906-11	METAL OXIDE	15 5% 3W
R6204	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6206	1-216-033-00	RES-CHIP	220 5% 1/10W
R6207	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W
R6208	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6209	1-216-099-00	RES-CHIP	120K 5% 1/10W
R6210	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6211	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6212	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6213	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6215	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6216	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6217	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6218	1-208-836-11	METAL CHIP	180K 0.5% 1/10W
R6219	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R6220	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6221	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6222	1-216-295-91	SHORT	0
R6223	1-216-295-91	SHORT	0
R6224	1-208-824-11	METAL CHIP	56K 0.5% 1/10W
R6225	1-208-824-11	METAL CHIP	56K 0.5% 1/10W
R6226	1-216-033-00	RES-CHIP	220 5% 1/10W
R6227	1-216-033-00	RES-CHIP	220 5% 1/10W
R6324	1-216-017-91	RES-CHIP	47 5% 1/10W
R6325	1-216-017-91	RES-CHIP	47 5% 1/10W
R6326	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R6327	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R6350	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R6357	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6359	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6360	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6361	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6367	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R6368	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6375	1-216-041-00	RES-CHIP	470 5% 1/10W
R6378	1-215-473-00	METAL	150K 1% 1/4W
R6379	1-216-295-91	SHORT	0
R6382	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R6385	1-216-295-91	SHORT	0
R6386	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R6391	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6394	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R6413	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6416	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R6418	1-216-113-00	RES-CHIP	470K 5% 1/10W
R6419	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6420	1-216-111-00	RES-CHIP	390K 5% 1/10W
R6433	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6438	1-215-437-00	METAL	4.7K 1% 1/4W

D1 DH E

REF. NO.	PART NO.	DESCRIPTION		REMARK
R6442	1-216-057-00	RES-CHIP	2.2K 5%	1/10W
R6456	1-216-097-91	RES-CHIP	100K 5%	1/10W
R6457	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R6458	1-216-089-91	RES-CHIP	47K	5% 1/10W
R6459	1-216-057-00	RES-CHIP	2.2K 5%	1/10W
		<VARIABLE RESISTOR>		
RV6100	1-241-785-11	RES, ADJ, CERMET 10K		

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* A-1343-791-A DH BOARD MOUNTED
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REF. NO.	PART NO.	DESCRIPTION		REMARK
		<CONNECTOR>		
CN3801	1-695-915-11	TAB (CONTACT)		
CN3803	1-695-915-11	TAB (CONTACT)		
		<NEON LAMP>		
NL3801	1-576-414-21	GAP, SPARK		
		<RESISTOR>		
R3811	1-219-510-11	CARBON	470K 5%	1/2W

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* A-1343-743-E E BOARD MOUNTED (2,000,001 ~ 2,000,030)
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* A-1343-743-F E BOARD MOUNTED (2,000,031and later)
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REF. NO.	PART NO.	DESCRIPTION		REMARK
		<CAPACITOR>		
C4301	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4302	1-102-121-00	CERAMIC CHIP (2,000,031 and later)	0.0022UF	10.00% 50V
C4302	1-164-161-11	CERAMIC CHIP (2,000,001 ~ 2,000,030)	0.0022UF	10.00% 50V
C4308	1-126-960-11	ELECT	1UF	20.00% 50V
C4309	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C4316	1-104-664-11	ELECT	47UF	20.00% 25V
C4317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4318	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4319	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4320	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4321	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4322	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4324	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4325	1-163-093-00	CERAMIC CHIP	10PF	5.00% 50V
C4326	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4327	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4328	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4329	1-126-963-11	ELECT	4.7UF	20.00% 50V
C4330	1-136-244-11	FILM	0.1UF	5.00% 50V
C4331	1-126-959-11	ELECT	0.47UF	20.00% 50V
C4332	1-136-161-00	MYLAR	0.047UF	5.00% 50V
C4333	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4334	1-126-967-11	ELECT	47UF	20.00% 50V
C4336	1-126-967-11	ELECT	47UF	20.00% 50V
C4338	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4339	1-163-235-11	CERAMIC CHIP	22PF	5.00% 50V
C4340	1-126-967-11	ELECT	47UF	20.00% 50V
C4341	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V
C4342	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C4343	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4344	1-163-809-11	CERAMIC CHIP	0.047UF	10.00% 25V
C4345	1-126-967-11	ELECT	47UF	20.00% 50V
C4346	1-164-346-11	CERAMIC CHIP	1UF	16V
C4347	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4348	1-164-346-11	CERAMIC CHIP	1UF	16V
C4349	1-164-346-11	CERAMIC CHIP	1UF	16V
C4350	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4351	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C4352	1-126-967-11	ELECT	47UF	20.00% 50V
C4353	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C4354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C4355	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4356	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4357	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4359	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C4360	1-126-963-11	ELECT	4.7UF	20.00% 50V
C4362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4363	1-126-967-11	ELECT	47UF	20.00% 50V
C4364	1-126-967-11	ELECT	47UF	20.00% 50V
C4366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C4367	1-104-760-11	CERAMIC CHIP	0.047UF	10.00% 50V
C4369	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4370	1-126-967-11	ELECT	47UF	20.00% 50V
C4371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4378	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C4800	1-136-165-00	MYLAR	0.1UF	5.00% 50V
C4801	1-136-161-00	MYLAR	0.047UF	5.00% 50V
C4802	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V
C4803	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C4804	1-126-967-11	ELECT	47UF	20.00% 50V
C4805	1-126-964-11	ELECT	10UF	20.00% 50V
C4806	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C4808	1-136-165-00	MYLAR	0.1UF	5.00% 50V
C4809	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V
C4811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C4812	1-126-967-11	ELECT	47UF	20.00% 50V
C4813	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C4814	1-126-967-11	ELECT	47UF	20.00% 50V
C4816	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V
C4817	1-126-967-11	ELECT	47UF	20.00% 50V
C4818	1-126-961-11	ELECT	2.2UF	20.00% 50V
C4820	1-107-909-11	ELECT	47UF	20.00% 50V

E

REF. NO.	PART NO.	DESCRIPTION	REMARK
C4821	1-107-909-11	ELECT 47UF 20.00% 16V	
C4822	1-107-909-11	ELECT 47UF 20.00% 16V	
C4823	1-163-017-00	CERAMIC CHIP 0.0047UF 10.00% 50V	
C4824	1-163-809-11	CERAMIC CHIP 0.047UF 10.00% 25V	
C4825	1-163-809-11	CERAMIC CHIP 0.047UF 10.00% 25	
C4833	1-126-964-11	ELECT 10UF 20.00% 50V	
C4834	1-126-933-11	ELECT 100UF 20.00% 16V	
C4835	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C4836	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C4837	1-163-275-11	CERAMIC CHIP 0.001UF 5.00% 50V	
C4905	1-126-964-11	ELECT 10UF 20.00% 50V	
C4906	1-164-489-11	CERAMIC CHIP 0.22UF 10.00% 16V	
		<CONNECTOR>	
CN4101	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P	
CN4500*	1-564-512-11	PLUG, CONNECTOR 9P	
CN4502*	1-564-506-11	PLUG, CONNECTOR 3P	
		<DIODE>	
D4303	8-719-109-72	DIODE RD3.9ESB2	
D4304	8-719-977-22	DIODE DTZ9.1	
D4305	8-719-977-22	DIODE DTZ9.1	
D4311	8-719-914-43	DIODE DAN202K	
D4312	8-719-914-43	DIODE DAN202K	
D4313	8-719-401-63	DIODE MA3062M-TX	
D4314	8-719-914-43	DIODE DAN202K	
D4800	8-719-914-43	DIODE DAN202K	
D4801	8-719-914-43	DIODE DAN202K	
D4802	8-719-109-81	DIODE RD4.7ESB2	
D4803	8-719-911-19	DIODE 1SS119-25	
D4804	8-719-911-19	DIODE 1SS119-25	
D4807	8-719-914-43	DIODE DAN202K	
D4808	8-719-914-43	DIODE DAN202K	
D4809	8-719-914-43	DIODE DAN202K	
D4811	1-249-381-11	CARBON 1 5%	1/4W
D4812	8-719-911-19	DIODE 1SS119-25TD	
D4813	8-719-914-43	DIODE DAN202K	
D4814	8-719-914-43	DIODE DAN202K	
D4815	8-719-109-54	DIODE RD2.2ESB2	
D4816	8-719-911-19	DIODE 1SS119-25	
D4900	8-719-911-19	DIODE 1SS119-25 (2,000,031 and later only)	
		<FERRITE BEAD>	
FB4387	1-216-295-91	SHORT 0	
FB4388	1-216-295-91	SHORT 0	
FB4389	1-216-295-91	SHORT 0	
		<IC>	
IC4301	8-752-090-87	IC CXA2100AQ	
IC4800	8-759-450-95	IC LM393N	
IC4801	8-759-450-95	IC LM393N	
IC4802	8-759-638-79	IC NJM3404AD-W	
IC4803	8-759-135-80	IC UPC358C	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CHIP CONDUCTOR>	
JR4301	1-216-295-91	SHORT 0	
		<COIL>	
L4301	1-412-029-11	INDUCTOR CHIP 10UH	
L4302	1-412-029-11	INDUCTOR CHIP 10UH	
L4303	1-412-029-11	INDUCTOR CHIP 10UH	
L4304	1-412-029-11	INDUCTOR CHIP 10UH	
L4305	1-412-029-11	INDUCTOR CHIP 10UH	
L4306	1-412-029-11	INDUCTOR CHIP 10UH	
L4308	1-412-031-11	INDUCTOR CHIP 47UH	
L4309	1-412-031-11	INDUCTOR CHIP 47UH	
L4311	1-412-002-31	INDUCTOR CHIP 4.7UH	
		<TRANSISTOR>	
Q4301	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q4304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4307	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4310	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4315	1-801-806-11	TRANSISTOR DTC144EKA	
Q4316	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4317	8-729-900-53	TRANSISTOR DTC114EKA	
Q4319	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4320	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4321	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4322	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4800	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4801	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4802	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4803	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4804	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4805	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4806	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4807	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4808	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4809	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4810	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4811	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4812	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4813	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4814	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4815	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4816	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4817	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4818	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4820	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4821	1-801-806-11	TRANSISTOR DTC144EKA	
Q4822	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4823	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4824	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4825	8-729-230-49	TRANSISTOR 2SC2712-YG	

REF. NO.	PART NO.	DESCRIPTION			REMARK
Q4826	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4906	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q4907	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4908	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4909	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q4910	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R4301	1-216-025-91	RES-CHIP	100	5%	1/10W
R4302	1-216-025-91	RES-CHIP	100	5%	1/10W
R4303	1-216-025-91	RES-CHIP	100	5%	1/10W
R4304	1-216-025-91	RES-CHIP	100	5%	1/10W
R4305	1-216-025-91	RES-CHIP	100	5%	1/10W
R4306	1-216-025-91	RES-CHIP	100	5%	1/10W
R4307	1-216-025-91	RES-CHIP	100	5%	1/10W
R4308	1-216-295-91	SHORT	0		
R4310	1-216-295-91	SHORT	0		
R4312	1-216-295-91	SHORT	0		
R4313	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4314	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4316	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4317	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4318	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R4319	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R4320	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4321	1-216-298-00	RES-CHIP	2.2	5%	1/10W
R4323	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4324	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R4325	1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R4326	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R4327	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4329	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R4330	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4331	1-216-025-91	RES-CHIP	100	5%	1/10W
R4332	1-216-025-91	RES-CHIP	100	5%	1/10W
R4333	1-216-025-91	RES-CHIP	100	5%	1/10W
R4334	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4335	1-216-025-91	RES-CHIP	100	5%	1/10W
R4336	1-216-025-91	RES-CHIP	100	5%	1/10W
R4337	1-216-025-91	RES-CHIP	100	5%	1/10W
R4338	1-216-041-00	RES-CHIP	470	5%	1/10W
R4339	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R4341	1-216-295-91	SHORT	0		
R4343	1-216-025-91	RES-CHIP	100	5%	1/10W
R4344	1-216-025-91	RES-CHIP	100	5%	1/10W
R4345	1-216-075-00	RES-CHIP	12K	5%	1/10W
R4346	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R4347	1-216-025-91	RES-CHIP	100	5%	1/10W
R4348	1-216-025-91	RES-CHIP	100	5%	1/10W
R4349	1-216-041-00	RES-CHIP	470	5%	1/10W
R4350	1-216-025-91	RES-CHIP	100	5%	1/10W
R4351	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4352	1-216-041-00	RES-CHIP	470	5%	1/10W
R4353	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R4354	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4355	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4356	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4357	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4358	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R4359	1-216-041-00	RES-CHIP	470	5%	1/10W
R4360	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4361	1-216-133-00	RES-CHIP	3.3M	5%	1/10W
R4363	1-216-025-91	RES-CHIP	100	5%	1/10W
R4365	1-216-025-91	RES-CHIP	100	5%	1/10W
R4366	1-216-025-91	RES-CHIP	100	5%	1/10W
R4367	1-216-025-91	RES-CHIP	100	5%	1/10W
R4369	1-216-025-91	RES-CHIP	100	5%	1/10W
R4370	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4372	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4373	1-216-295-91	SHORT	0		
R4374	1-216-025-91	RES-CHIP	100	5%	1/10W
R4375	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4376	1-216-025-91	RES-CHIP	100	5%	1/10W
R4377	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4380	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4381	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R4382	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4383	1-216-079-00	RES-CHIP	18K	5%	1/10W
R4384	1-216-025-91	RES-CHIP	100	5%	1/10W
R4387	1-216-295-91	SHORT	0		
R4388	1-216-295-91	SHORT	0		
R4389	1-216-295-91	SHORT	0		
R4395	1-216-295-91	SHORT	0		
R4396	1-216-295-91	SHORT	0		
R4397	1-216-295-91	SHORT	0		
R4399	1-216-025-91	RES-CHIP	100	5%	1/10W
R4401	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4408	1-216-025-91	RES-CHIP	100	5%	1/10W
R4409	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4410	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4411	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4412	1-216-097-91	RES-CHIP	100K	5%	1/10W
R4518	1-216-025-91	RES-CHIP	100	5%	1/10W
R4519	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4520	1-216-025-91	RES-CHIP	100	5%	1/10W
R4521	1-216-025-91	RES-CHIP	100	5%	1/10W
R4800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4801	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4802	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4803	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4804	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4805	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4806	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4807	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4809	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4810	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4811	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4812	1-216-295-91	SHORT	0		
R4813	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4814	1-216-097-91	RES-CHIP	100K	5%	1/10W
R4815	1-216-097-91	RES-CHIP	100K	5%	1/10W
R4816	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4817	1-208-854-11	METAL CHIP	1M	0.5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

E **E2**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R4818	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4819	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4820	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4821	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4822	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4823	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4824	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4825	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4826	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4827	1-216-295-91	SHORT	0
R4828	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4829	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4831	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R4832	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R4833	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R4834	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R4835	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R4836	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R4837	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R4838	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R4839	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R4840	1-216-295-91	SHORT	0
R4841	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4842	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R4843	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4844	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
R4845	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R4846	1-216-295-91	SHORT	0
R4847	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4848	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4849	1-216-085-00	RES-CHIP	33K 5% 1/10W
R4850	1-216-097-91	RES-CHIP	100K 5% 1/10W
R4851	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R4852	1-216-081-00	RES-CHIP	22K 5% 1/10W
R4853	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R4854	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R4855	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R4856	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4857	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R4859	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R4860	1-208-758-11	METAL CHIP	100 0.5% 1/10W
R4861	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4862	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R4864	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R4865	1-208-772-11	METAL CHIP	390 0.5% 1/10W
R4866	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4869	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R4871	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R4872	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4874	1-216-295-91	SHORT	0
R4875	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4877	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4878	1-208-834-11	METAL CHIP	150K 0.5% 1/10W
R4879	1-216-105-91	RES-CHIP	220K 5% 1/10W
R4881	1-216-295-91	SHORT	0
R4882	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R4883	1-208-842-11	METAL CHIP	330K 0.5% 1/10W
R4884	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R4887	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R4892	1-216-295-91	SHORT	0
R4894	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4895	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4897	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R4898	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R4899	1-216-025-91	RES-CHIP	100 5% 1/10W
R4908	1-216-049-91	RES-CHIP	1K 5% 1/10W
R4909	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R4910	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R4911	1-208-818-11	METAL CHIP	33K 0.5% 1/10W
R4912	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R4913	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R4914	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4915	1-216-025-91	RES-CHIP	100 5% 1/10W
R4916	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4917	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4918	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4921	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R4922	1-208-802-11	METAL CHIP	6.8K 0.5% 1/10W
R4924	1-208-802-11	METAL CHIP	6.8K 0.5% 1/10W
R4925	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4926	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R4927	1-208-826-11	METAL CHIP	68K 0.5% 1/10W

<CRYSTAL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
X4300	1-767-127-11	VIBRATOR, CERAMIC	

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* A-1343-861-A E2 BOARD MOUNTED (2,000,001~2,000,030 only)
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REF. NO.	PART NO.	DESCRIPTION	REMARK
C4300	1-126-964-11	ELECT	10UF 20.00% 50V
C4301	1-136-169-00	MYLAR	0.22UF 5.00% 50V
C4901	1-130-495-00	MYLAR	0.1UF 5.00% 50V
C4902	1-126-964-11	ELECT	10UF 20.00% 50V
C4903	1-136-479-11	FILM	0.001UF 5.00UF 50V
C4904	1-130-495-00	MYLAR	0.1UF 5.00% 50V
CN4901	19-564-507-11	PLUG, CONNECTOR 4P	
CN4902	1-564-507-11	PLUG, CONNECTOR 4P	
D4302	8-719-911-19	DIODE	1SS119-25
D4303	1-535-303-00	JUMPER (5.0MM)	
Q4300	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q4302	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q4303	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q4304	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q4305	8-279-119-76	TRANSISTOR	2SA1175-HFE
Q4901	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q4902	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q4903	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q4904	8-729-119-76	TRANSISTOR	2SA1175-HFE
R4300	1-247-807-31	CARBON	100 5% 1/4W
R4301	1-249-421-11	CARBON	2.2K 5% 1/4W
R4305	1-249-421-11	CARBON	2.2K 5% 1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

E2 F1 F2 H1

REF. NO.	PART NO.	DESCRIPTION			REMARK
R4306	1-249-437-11	CARBON	47K	5%	1/4W
R4309	1-215-429-00	METAL	2.2K	1%	1/4W
R4310	1-215-441-00	METAL	6.8K	1%	1/4W
R4311	1-249-421-11	CARBON	2.2K	5%	1/4W
R4313	1-125-441-00	METAL	6.8K	1%	1/4W
R4314	1-249-421-11	CARBON	2.2K	5%	1/4W
R4315	1-245-465-00	METAL	68K	1%	1/4W
R4901	1-249-417-11	CARBON	1K	5%	1/4W
R4902	1-249-425-11	CARBON	4.7K	5%	1/4W
R4903	1-249-435-11	CARBON	33K	5%	1/4W
R4904	1-249-425-11	CARBON	4.7K	5%	1/4W
R4905	1-249-429-11	CARBON	10K	5%	1/4W
R4906	1-249-429-11	CARBON	10K	5%	1/4W
R4907	1-249-421-11	CARBON	2.2K	5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1241-402-A	F1 BOARD MOUNTED ********************			
	1-533-223-11	HOLDER, FUSE			
*	4-374-846-01	COVER, CAPACITOR, CAP TYPE			
		<CAPACITOR>			
C1601 ⚠	1-104-708-51	MYLAR	0.47UF	20.00%	250V
C1602 ⚠	1-109-835-51	MYLAR	0.68UF	20.00%	250V
C1603 ⚠	1-117-703-51	CERAMIC	0.0047UF	99%	250V
		<CONNECTOR>			
CN1601*⚠	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1602*⚠	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1604	1-695-915-11	TAB (CONTACT)			
		<FUSE>			
F1601	1-532-299-00	FUSE, TIME-LAG 5A/250V			
		<FERRITE BEAD>			
FB1601	1-410-397-21	FERRITE	1.1UH		
FB1602	1-410-397-21	FERRITE	1.1UH		
FB1603	1-410-397-21	FERRITE	1.1UH		
FB1604	1-410-397-21	FERRITE	1.1UH		
		<RESISTOR>			
R1601 ⚠	1-202-719-91	SOLID	1M	10%	1/2W
		<TRANSFORMER>			
T1601	1-433-900-11	TRANSFORMER, LINE FILTER			
T1602	1-433-900-11	TRANSFORMER, LINE FILTER			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<VARISTOR>			
VDR161	1-803-830-11	VARISTOR (ERZV14D621)			

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1241-403-A	F2 BOARD MOUNTED ********************			
		<CONNECTOR>			
CN1651*	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1652*	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
		<SWITCH>			
S1651 ⚠	1-571-433-31	SWITCH, PUSH (AC POWER)			

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1372-728-A	H1 BOARD MOUNTED ********************			
*	4-055-304-01	HOLDER, LED			
		<CAPACITOR>			
C1910	1-104-664-11	ELECT	47UF	20.00%	16V
C1911	1-104-664-11	ELECT	47UF	20.00%	16V
C1912	1-102-824-00	CERAMIC	470PF	5.00%	50V
		<CONNECTOR>			
CN1901*	1-564-520-11	PLUG, CONNECTOR 5P			
		<DIODE>			
D1906	8-719-045-19	DIODE SPB-26MVWF			
		<IC>			
IC1901	8-742-134-00	HYB IC SBX1981-51P			
		<TRANSISTOR>			
Q1901	8-729-030-02	TRANSISTOR DTC144ESA			
Q1902	8-729-030-02	TRANSISTOR DTC144ESA			
		<RESISTOR>			
R1911	1-249-411-11	CARBON	330	5%	1/4W
R1913	1-249-429-11	CARBON	10K	5%	1/4W
R1914	1-249-411-11	CARBON	330	5%	1/4W
R1915	1-249-429-11	CARBON	10K	5%	1/4W
R1916	1-249-401-11	CARBON	47	5%	1/4W

H1 H2 H3 J

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1917	1-247-807-31	CARBON	100	5%	1/4W
R1920	1-247-807-31	CARBON	100	5%	1/4W
R1921	1-247-807-31	CARBON	100	5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1372-729-A	H2 BOARD MOUNTED ********************			
		<CAPACITOR>			
C1930	1-136-153-00	MYLAR	0.01UF	5.00%	50V
C1932	1-136-153-00	MYLAR	0.01UF	5.00%	50V
C1935	1-102-824-00	CERAMIC	470PF	5.00%	50V
C1938	1-102-824-00	CERAMIC	470PF	5.00%	50V
		<CONNECTOR>			
CN1932*	1-564-509-11	PLUG, CONNECTOR 6P			
CN1934*	1-564-515-11	PLUG, CONNECTOR 12P			
		<DIODE>			
D1930	8-719-929-15	DIODE HZS9.1NB2			
D1935	8-719-929-15	DIODE HZS9.1NB2			
		<JACK>			
J1931	1-770-786-11	JACK			
J1932	1-537-744-11	TERMINAL, S			
J1933	1-770-329-11	JACK, PIN 3P			
		<COIL>			
L1931	1-408-603-31	INDUCTOR	10UH		
L1932	1-408-603-31	INDUCTOR	10UH		
		<RESISTOR>			
R1933	1-247-895-91	CARBON	470K 5%	1/4W	
R1934	1-247-807-31	CARBON	100	5%	1/4W
R1935	1-247-807-31	CARBON	100	5%	1/4W
R1936	1-247-895-91	CARBON	470K 5%	1/4W	
R1952	1-249-421-11	CARBON	2.2K 5%	1/4W	
		<SWITCH>			
S1931	1-692-431-21	SWITCH, TACTILE			

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1372-730-A	H3 BOARD MOUNTED ********************			
		<CONNECTOR>			
CN1980*	1-564-518-11	PLUG, CONNECTOR 3P			
		<RESISTOR>			
R1970	1-249-416-11	CARBON	820	5%	1/4W
R1971	1-249-417-11	CARBON	1K	5%	1/4W
R1972	1-249-418-11	CARBON	1.2K 5%	1/4W	
R1973	1-249-420-11	CARBON	1.8K 5%	1/4W	
R1974	1-247-843-11	CARBON	3.3K 5%	1/4W	
R1975	1-249-427-11	CARBON	6.8K 5%	1/4W	
R1976	1-249-432-11	CARBON	18K	5%	1/4W
		<SWITCH>			
S1972	1-572-198-11	SWITCH, KEYBOARD			
S1973	1-572-198-11	SWITCH, KEYBOARD			
S1974	1-572-198-11	SWITCH, KEYBOARD			
S1975	1-572-198-11	SWITCH, KEYBOARD			
S1976	1-572-198-11	SWITCH, KEYBOARD			
S1977	1-572-198-11	SWITCH, KEYBOARD			
S1978	1-572-198-11	SWITCH, KEYBOARD			
S1979	1-572-198-11	SWITCH, KEYBOARD			

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1394-979-A	J BOARD COMPLETE *******************			
	3-350-679-01	WASHER, FIBER			
		<CAPACITOR>			
C8300	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8301	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8302	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8303	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8304	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8305	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8306	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8307	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8308	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8309	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8310	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8311	1-164-346-11	CERAMIC CHIP	1UF		16V
C8312	1-164-346-11	CERAMIC CHIP	1UF		16V
C8313	1-164-346-11	CERAMIC CHIP	1UF		16V
C8314	1-164-346-11	CERAMIC CHIP	1UF		16V
C8315	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8316	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8318	1-164-346-11	CERAMIC CHIP	1UF		16V
C8319	1-164-346-11	CERAMIC CHIP	1UF		16V

J

REF. NO.	PART NO.	DESCRIPTION		REMARK
C8320	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8321	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8322	1-164-346-11	CERAMIC CHIP	1UF	16V
C8323	1-164-346-11	CERAMIC CHIP	1UF	16V
C8324	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8325	1-126-935-11	ELECT	470UF	20.00% 16V
C8326	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8327	1-164-346-11	CERAMIC CHIP	1UF	16V
C8328	1-164-346-11	CERAMIC CHIP	1UF	16V
C8329	1-163-249-11	CERAMIC CHIP	82PF	5.00% 50V
C8330	1-164-346-11	CERAMIC CHIP	1UF	16V
C8331	1-164-346-11	CERAMIC CHIP	1UF	16V
C8333	1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V
C8334	1-104-664-11	ELECT	47UF	20.00% 16V
C8335	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8336	1-104-664-11	ELECT	47UF	20.00% 16V
C8337	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8338	1-164-346-11	CERAMIC CHIP	1UF	16V
C8339	1-164-346-11	CERAMIC CHIP	1UF	16V
C8340	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8341	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8342	1-126-964-11	ELECT	10UF	20.00% 50V
C8343	1-104-664-11	ELECT	47UF	20.00% 16V
C8346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8349	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8352	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8353	1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V
C8354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8355	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8356	1-164-346-11	CERAMIC CHIP	1UF	16V
C8359	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
C8360	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8361	1-126-961-11	ELECT	2.2UF	20.00% 50V
C8362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8363	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8364	1-104-664-11	ELECT	47UF	20.00% 16V
C8365	1-104-664-11	ELECT	47UF	20.00% 16V
C8366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8367	1-104-664-11	ELECT	47UF	20.00% 16V
C8368	1-104-664-11	ELECT	47UF	20.00% 16V
C8369	1-104-664-11	ELECT	47UF	20.00% 16V
C8370	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8372	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8373	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V
C8374	1-164-346-11	CERAMIC CHIP	1UF	16V
C8375	1-126-964-11	ELECT	10UF	20.00% 50V
C8376	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8381	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8382	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8386	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8390	1-126-963-11	ELECT	4.7UF	20.00% 50V
C8391	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8392	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8393	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8396	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8399	1-126-961-11	ELECT	2.2UF	20.00% 50V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C8401	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8402	1-164-346-11	CERAMIC CHIP	1UF	16V
C8403	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
C8406	1-104-664-11	ELECT	47UF	20.00% 16V
C8407	1-104-664-11	ELECT	47UF	20.00% 16V
C8408	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8410	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8411	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8412	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8413	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8414	1-104-664-11	ELECT	47UF	20.00% 16V
C8415	1-164-346-11	CERAMIC CHIP	1UF	16V
C8416	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8417	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V
C8418	1-126-964-11	ELECT	10UF	20.00% 50V
C8419	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8424	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8425	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C8430	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8431	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V
C8432	1-163-239-11	CERAMIC CHIP	33PF	5.00% 50V
C8437	1-126-963-11	ELECT	4.7UF	20.00% 50V
C8438	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8439	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8440	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8441	1-164-346-11	CERAMIC CHIP	1UF	16V
C8442	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8443	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8444	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8445	1-164-346-11	CERAMIC CHIP	1UF	16V
C8446	1-104-664-11	ELECT	47UF	20.00% 16V
C8447	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C8450	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8451	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C8452	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8453	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8454	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8455	1-104-664-11	ELECT	47UF	20.00% 16V
C8456	1-104-664-11	ELECT	47UF	20.00% 16V
C8457	1-104-664-11	ELECT	47UF	20.00% 16V
C8459	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8464	1-104-664-11	ELECT	47UF	20.00% 16V
C8465	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8466	1-247-807-31	CARBON	100	5% 1/4W
C8468	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8469	1-247-807-31	CARBON	100	5% 1/4W
C8471	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8474	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
		<CONNECTOR>		
CN8301*	1-564-524-11	PLUG, CONNECTOR 9P		
CN8302	1-695-915-11	TAB (CONTACT)		
CN8304	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P		

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D8101	8-719-073-01	DIODE MA111-(K8).SO	
D8102	1-216-295-91	SHORT 0	
D8301	8-719-158-35	DIODE RD9.1S	
D8302	8-719-158-35	DIODE RD9.1S	
D8303	8-719-158-35	DIODE RD9.1S	
D8304	8-719-158-35	DIODE RD9.1S	
D8305	8-719-158-35	DIODE RD9.1S	
D8306	8-719-158-35	DIODE RD9.1S	
D8307	8-719-158-35	DIODE RD9.1S	
D8308	8-719-158-35	DIODE RD9.1S	
D8309	8-719-158-35	DIODE RD9.1S	
D8310	8-719-158-35	DIODE RD9.1S	
D8311	8-719-158-35	DIODE RD9.1S	
D8312	8-719-158-35	DIODE RD9.1S	
D8313	8-719-158-35	DIODE RD9.1S	
D8314	8-719-158-35	DIODE RD9.1S	
D8315	8-719-067-40	DIODE STZ6.8N-T146	
D8316	8-719-067-40	DIODE STZ6.8N-T146	
D8317	8-719-067-40	DIODE STZ6.8N-T146	
D8318	8-719-158-35	DIODE RD9.1S	
D8319	8-719-158-35	DIODE RD9.1S	
D8320	8-719-158-35	DIODE RD9.1S	
D8321	8-719-158-35	DIODE RD9.1S	
D8322	8-719-158-35	DIODE RD9.1S	
D8323	8-719-158-35	DIODE RD9.1S	
D8324	8-719-158-35	DIODE RD9.1S	
D8325	8-719-158-35	DIODE RD9.1S	
D8331	8-719-041-97	DIODE MA113-(TX)	
		<FILTER>	
FB8101	1-414-598-11	INDUCTOR CHIP OUH	
FL8301	1-236-071-11	ENCAPSULATED COMPONENT	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
FL8305	1-236-071-11	ENCAPSULATED COMPONENT	
FL8307	1-236-071-11	ENCAPSULATED COMPONENT	
FL8308	1-236-071-11	ENCAPSULATED COMPONENT	
FL8309	1-236-071-11	ENCAPSULATED COMPONENT	
FL8311	1-236-071-11	ENCAPSULATED COMPONENT	
FL8312	1-236-071-11	ENCAPSULATED COMPONENT	
FL8313	1-236-071-11	ENCAPSULATED COMPONENT	
FL8314	1-233-877-11	FILTER, LOW PASS	
FL8315	1-233-504-21	FILTER, LOW PASS	
FL8316	1-233-504-21	FILTER, LOW PASS	
		<IC>	
IC8302	8-752-080-04	IC CXA2069Q	
IC8304	8-759-576-72	IC LF50CDT-TR	
IC8305	8-759-576-74	IC LF90CDT-TR	
IC8306	8-752-094-47	IC CXA2123AQ-T6	
IC8308	8-752-094-47	IC CXA2123AQ-T6	
IC8309	8-759-337-26	IC MM1115XFBE	
IC8310	8-759-572-04	IC TDA9178T/N1.118	
IC8311	8-759-485-79	IC TC7SET08FU(TE85L)	
IC8312	8-759-485-79	IC TC7SET08FU(TE85L)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<JACK>	
J8106	1-793-787-11	JACK BLOCK, PIN IP	
J8301	1-774-748-11	TERMINAL BLOCK, S	
J8302	1-774-746-11	JACK BLOCK, PIN	
J8303	1-774-746-11	JACK BLOCK, PIN	
J8304	1-774-746-11	JACK BLOCK, PIN	
J8305	1-695-444-11	PIN JACK BLOCK 3P	
J8307	1-565-838-11	JACK BLOCK, PIN 2P	
		<CHIP CONDUCTOR>	
JR8301	1-216-295-91	SHORT 0	
JR8302	1-216-295-91	SHORT 0	
		<COIL>	
L8302	1-414-196-41	INDUCTOR 47UH	
L8303	1-414-196-41	INDUCTOR 47UH	
L8304	1-414-196-41	INDUCTOR 47UH	
		<TRANSISTOR>	
Q8301	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q8302	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8303	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8305	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8306	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8307	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8308	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8309	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8310	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8312	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8319	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8320	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8321	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8322	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8323	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8324	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8326	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8327	1-801-806-11	TRANSISTOR DTC144EKA	
Q8328	1-801-806-11	TRANSISTOR DTC144EKA	
Q8329	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8330	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8331	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8332	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8333	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8334	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8335	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8336	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8337	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8344	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8345	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8346	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8347	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8348	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8349	8-729-230-49	TRANSISTOR 2SC2712-YG	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
Q8350	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8351	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8352	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8353	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8354	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8355	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8358	1-801-806-11	TRANSISTOR DTC144EKA	
Q8359	1-801-806-11	TRANSISTOR DTC144EKA	
Q8360	1-801-806-11	TRANSISTOR DTC144EKA	
Q8361	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8362	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8363	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8364	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8464	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8465	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8466	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	
R8101	1-216-022-00	RES, CHIP 75 5% 1/10W	
R8208	1-216-295-91	SHORT 0	
R8209	1-216-295-91	SHORT 0	
R8301	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8302	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8303	1-216-021-00	RES-CHIP 68 5% 1/10W	
R8304	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R8305	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8306	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8307	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8308	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8309	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8310	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8311	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8312	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8313	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8314	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8315	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8316	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8317	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8318	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8319	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8320	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8321	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8322	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8323	1-216-295-91	SHORT 0	
R8324	1-216-295-91	SHORT 0	
R8325	1-216-295-91	SHORT 0	
R8326	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8327	1-216-295-91	SHORT 0	
R8328	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8329	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8330	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8331	1-216-295-91	SHORT 0	
R8332	1-216-295-91	SHORT 0	
R8333	1-216-295-91	SHORT 0	
R8334	1-216-295-91	SHORT 0	
R8335	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8336	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8337	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8338	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8339	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8340	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8341	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8342	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8343	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8344	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8345	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8346	1-216-031-00	RES-CHIP 180 5% 1/10W	
R8347	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8348	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R8349	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R8350	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R8351	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8352	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R8353	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8355	1-216-295-91	SHORT 0	
R8356	1-216-295-91	SHORT 0	
R8357	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8358	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8361	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8363	1-208-773-11	METAL CHIP 430 0.5% 1/10W	
R8364	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8365	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R8366	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R8367	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8369	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8370	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8372	1-216-295-91	SHORT 0	
R8373	1-216-295-91	SHORT 0	
R8374	1-216-039-00	RES-CHIP 390 5% 1/10W	
R8375	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8376	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R8377	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8378	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8379	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8380	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8381	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8382	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8383	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8384	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8385	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8386	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8388	1-216-031-00	RES-CHIP 180 5% 1/10W	
R8389	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8395	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8396	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8399	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8400	1-216-025-91	RES-CHIP 100 5% 1/10W	
R8405	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8406	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8407	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8408	1-216-033-00	RES-CHIP 220 5% 1/10W	
R8409	1-216-295-91	SHORT 0	
R8410	1-216-295-91	SHORT 0	
R8411	1-216-083-00	RES-CHIP 27K 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
R8414	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8415	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8417	1-216-025-91	RES-CHIP	100	5%	1/10W
R8418	1-216-025-91	RES-CHIP	100	5%	1/10W
R8419	1-216-017-91	RES-CHIP	47	5%	1/10W
R8420	1-216-017-91	RES-CHIP	47	5%	1/10W
R8421	1-216-295-91	SHORT	0		
R8422	1-216-295-91	SHORT	0		
R8424	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8425	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8426	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8428	1-216-295-91	SHORT	0		
R8429	1-216-295-91	SHORT	0		
R8430	1-216-295-91	SHORT	0		
R8431	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8432	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8433	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8434	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8435	1-216-295-91	SHORT	0		
R8436	1-216-017-91	RES-CHIP	47	5%	1/10W
R8440	1-216-295-91	SHORT	0		
R8441	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8442	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8443	1-216-025-91	RES-CHIP	100	5%	1/10W
R8444	1-216-025-91	RES-CHIP	100	5%	1/10W
R8445	1-216-017-91	RES-CHIP	47	5%	1/10W
R8446	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8447	1-216-025-91	RES-CHIP	100	5%	1/10W
R8448	1-216-025-91	RES-CHIP	100	5%	1/10W
R8449	1-216-025-91	RES-CHIP	100	5%	1/10W
R8450	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8451	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8452	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8453	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8454	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8455	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8456	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8457	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8458	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8459	1-216-025-91	RES-CHIP	100	5%	1/10W
R8460	1-216-025-91	RES-CHIP	100	5%	1/10W
R8461	1-216-025-91	RES-CHIP	100	5%	1/10W
R8462	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8463	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8464	1-216-025-91	RES-CHIP	100	5%	1/10W
R8465	1-216-025-91	RES-CHIP	100	5%	1/10W
R8466	1-216-025-91	RES-CHIP	100	5%	1/10W
R8467	1-216-041-00	RES-CHIP	470	5%	1/10W
R8468	1-216-041-00	RES-CHIP	470	5%	1/10W
R8469	1-216-041-00	RES-CHIP	470	5%	1/10W
R8470	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8471	1-216-025-91	RES-CHIP	100	5%	1/10W
R8472	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8473	1-216-025-91	RES-CHIP	100	5%	1/10W
R8474	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8475	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8478	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8479	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8480	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8481	1-216-095-00	RES-CHIP	82K	5%	1/10W
R8482	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8484	1-216-045-00	RES-CHIP	680	5%	1/10W
R8485	1-216-037-00	RES-CHIP	330	5%	1/10W
R8486	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8487	1-216-045-00	RES-CHIP	680	5%	1/10W
R8488	1-216-041-00	RES-CHIP	470	5%	1/10W
R8489	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8490	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8491	1-216-025-91	RES-CHIP	100	5%	1/10W
R8492	1-216-041-00	RES-CHIP	470	5%	1/10W
R8493	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8494	1-216-041-00	RES-CHIP	470	5%	1/10W
R8495	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8496	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8497	1-216-025-91	RES-CHIP	100	5%	1/10W
R8498	1-216-043-91	RES-CHIP	560	5%	1/10W
R8499	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8500	1-216-033-00	RES-CHIP	220	5%	1/10W
R8501	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8502	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8503	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8504	1-216-295-91	SHORT	0		
R8507	1-216-025-91	RES-CHIP	100	5%	1/10W
R8508	1-216-025-91	RES-CHIP	100	5%	1/10W
R8511	1-216-041-00	RES-CHIP	470	5%	1/10W
R8512	1-216-017-91	RES-CHIP	47	5%	1/10W
R8513	1-216-039-00	RES-CHIP	390	5%	1/10W
R8514	1-216-039-00	RES-CHIP	390	5%	1/10W
R8515	1-216-295-91	SHORT	0		
R8516	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8518	1-216-047-91	RES-CHIP	820	5%	1/10W
R8519	1-216-047-91	RES-CHIP	820	5%	1/10W
R8522	1-216-041-00	RES-CHIP	470	5%	1/10W
R8524	1-216-041-00	RES-CHIP	470	5%	1/10W
R8525	1-216-033-00	RES-CHIP	220	5%	1/10W
R8528	1-216-025-91	RES-CHIP	100	5%	1/10W
R8530	1-216-041-00	RES-CHIP	470	5%	1/10W
R8532	1-216-041-00	RES-CHIP	470	5%	1/10W
R8533	1-216-041-00	RES-CHIP	470	5%	1/10W
R8536	1-216-025-91	RES-CHIP	100	5%	1/10W
R8538	1-216-041-00	RES-CHIP	470	5%	1/10W
R8540	1-216-041-00	RES-CHIP	470	5%	1/10W
R8541	1-216-039-00	RES-CHIP	390	5%	1/10W
R8544	1-216-041-00	RES-CHIP	470	5%	1/10W
R8547	1-216-295-91	SHORT	0		
R8548	1-216-033-00	RES-CHIP	220	5%	1/10W
R8551	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8556	1-216-025-91	RES-CHIP	100	5%	1/10W
R8557	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8558	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8560	1-216-025-91	RES-CHIP	100	5%	1/10W
R8561	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8562	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8564	1-216-025-91	RES-CHIP	100	5%	1/10W
R8565	1-216-049-91	RES-CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8566	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R8567	1-216-017-91	RES-CHIP	47 5% 1/10W
R8569	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
R8570	1-216-017-91	RES-CHIP	47 5% 1/10W
R8572	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
R8573	1-216-017-91	RES-CHIP	47 5% 1/10W
R8575	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
R8576	1-216-013-00	RES-CHIP	33 5% 1/10W
R8577	1-216-295-91	SHORT	0
R8578	1-216-033-00	RES-CHIP	220 5% 1/10W
R8579	1-216-295-91	SHORT	0
R8582	1-208-291-11	RES-CHIP	4.7M 5% 1/10W
R8584	1-208-291-11	RES-CHIP	4.7M 5% 1/10W
R8585	1-208-291-11	RES-CHIP	4.7M 5% 1/10W
R8586	1-208-291-11	RES-CHIP	4.7M 5% 1/10W
R8587	1-216-295-91	SHORT	0
R8588	1-216-041-00	RES-CHIP	470 5% 1/10W
R8589	1-216-041-00	RES-CHIP	470 5% 1/10W
R8590	1-216-041-00	RES-CHIP	470 5% 1/10W
		<CRYSTAL>	
X8301	1-781-612-11	VIBRATOR, CRYSTAL	
X8302	1-781-612-11	VIBRATOR, CRYSTAL	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
*	A-1342-515-A	VM BOARD MOUNTED *********************	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
		<CAPACITOR>	
C5401	1-126-935-11	ELECT	470UF 20.00% 16V
C5402	1-137-194-81	MYLAR	0.47UF 5.00% 50V
C5403	1-126-935-11	ELECT	470UF 20.00% 6.3V
C5405	1-126-933-11	ELECT	100UF 20.00% 16V
C5406	1-126-935-11	ELECT	470UF 20.00% 6.3V
C5407	1-107-364-11	MYLAR	0.01UF 10.00% 200V
C5408	1-107-364-11	MYLAR	0.01UF 10.00% 200V
C5409	1-107-649-11	ELECT	2.2UF 20.00% 250V
C5410	1-130-471-00	MYLAR	0.001UF 5.00% 50V
C5411	1-130-471-00	MYLAR	0.001UF 5.00% 50V
C5412	1-126-935-11	ELECT	470UF 20.00% 16V
C5413	1-107-648-91	ELECT	100UF 20.00% 160V
C5415	1-104-999-11	MYLAR	0.1UF 10.00% 200V
C5418	1-107-638-11	ELECT	33UF 20.00% 160V
		<CONNECTOR>	
CN5401*	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
CN5402	1-764-334-11	PLUG, CONNECTOR 11P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D5400	8-719-911-19	DIODE 1SS119-25	
D5401	8-719-510-02	DIODE D1NS4	
D5402	8-719-911-19	DIODE 1SS119-25	
D5403	8-719-911-19	DIODE 1SS119-25	
D5404	8-719-911-19	DIODE 1SS119-25	
D5405	8-719-110-56	DIODE RD22ESB1	
D5406	8-719-110-56	DIODE RD22ESB1	
		<COIL>	
L5400	1-412-525-31	INDUCTOR	10UH
		<TRANSISTOR>	
Q5400	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5404	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5405	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5406	8-729-045-05	TRANSISTOR 2SA2005	
Q5407	8-729-045-04	TRANSISTOR 2SC5511	
		<RESISTOR>	
R5401	1-249-425-11	CARBON	4.7K 5% 1/4W
R5402	1-249-415-11	CARBON	680 5% 1/4W
R5403	1-247-739-11	CARBON	100 5% 1/2W
R5404	1-249-418-11	CARBON	1.2K 5% 1/4W
R5406	1-249-425-11	CARBON	4.7K 5% 1/4W
R5407	1-249-399-11	CARBON	33 5% 1/4W
R5408	1-247-807-31	CARBON	100 5% 1/4W
R5409	1-247-815-91	CARBON	220 5% 1/4W
R5410	1-249-401-11	CARBON	47 5% 1/4W
R5411	1-249-401-11	CARBON	47 5% 1/4W
R5412	1-249-429-11	CARBON	10K 5% 1/4W
R5413	1-249-414-11	CARBON	560 5% 1/4W
R5414	1-249-432-11	CARBON	18K 5% 1/4W
R5415	1-247-739-11	CARBON	100 5% 1/2W
R5416	1-249-385-11	CARBON	2.2 5% 1/4W
R5417	1-249-432-11	CARBON	18K 5% 1/4W
R5418	1-249-414-11	CARBON	560 5% 1/4W
R5419	1-249-421-11	CARBON	2.2K 5% 1/4W
R5420	1-249-421-11	CARBON	2.2K 5% 1/4W
R5421	1-249-385-11	CARBON	2.2 5% 1/4W
R5422	1-249-405-11	CARBON	100 5% 1/4W
R5423	1-215-915-11	METAL OXIDE	470 5% 3W
R5424	1-249-395-11	CARBON	15 5% 1/4W
R5425	1-249-401-11	CARBON	47 5% 1/4W
R5427	1-249-395-11	CARBON	15 5% 1/4W

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		*****************	
⚠	1-419-294-11	COIL, DEGAUSSING	
	1-452-094-00	CIRCULAR DISC MAGNET B	
	1-452-032-00	MAGNET,DISC	
	1-452-896-11	COIL, NA ROTATION (RT200)	
	1-505-473-11	SPEAKER (12CM)	
	1-529-532-11	SPEAKER (5CM)	
	1-543-827-11	CLAMP, SLEEVE FERRITE	
	1-792-458-11	CABLE, RF (WITH FERRITE)	
⚠	1-792-764-11	CORD, POWER (WITH FILTER)	
⚠	8-451-504-51	DEFLECTION YOKE (Y29RSC-S2)	
⚠	8-735-041-01	PICTURE TUBE (M68LNH070X)	
	8-453-011-11	NA299-M	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKAGING MATERIALS	
		**	
	A-1028-415-A	PACKING GROUP	
	3-867-756-91	MANUAL, INSTRUCTION	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
*	4-384-101-21	BAG, PROTECTION	
*	4-396-077-01	JOINT	
	4-392-003-01	BAND, HOLD	
	4-392-004-11	CLIP	
*	4-062-487-01	TRAY	
*	4-071-701-01	INDIVIDUAL CARTON	
*	4-071-703-01	CUSHION (UPPER) (ASSY)	
*	4-071-704-01	CUSHION (LOWER) (ASSY)	
	1-765-167-21	CABLE COAXIAL (WITH (F) PLUG)	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		REMOTE COMMANDER	
		**********************	
	1-476-071-11	REMOTE COMMANDER (RM-959)	
	4-074-721-01	BATTERY COVER, REMOTE COMMANDER (RM-959)	

9-872-201-01

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